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KINGFA
KINGFA SCI.& TECH. CO.,LTD.

PRODUCT GUIDELINE

KINGFA provides customers with a series of innovative modified plastic materials to meet their demands; a majority of these material products have acquired market leadership in the industry and won the favor of customers. Relying on years of accumulation of professional technical knowledge, KINGFA' s innovative and high-performance materials have been widely used for automobiles, electronics and electrical, industrial equipments, consumer products, packaging and toys. KINGFA' s high-performance modified plastics not only provide extraordinary properties for the products, but also offer a sustainable solutions for environment protection, to enable customers to receive a balance of high quality, sustainable development and cost efficiency.






CONTENT


Modified Polyolefin Materials 03


AXS Material 04


Modified PS Material 05


PC Material 06


High-performance environmentally friendly automotive materials 07


Electric Effect Materials 08


Materials for Extrusion Molding 09


Specialty Engineering Plastics 11


Modified PBT Material 13


PVC Material 14


Nylon Engineering Plastics 15


High-performance LFT Composite Material 17


Green Plastics 18


Carbon fiber and composites 19


Light hydrocarbon and hydrogen energy 21


Medical healthcare products 23



Modified Polyolefin Materials

Generality and widespread use

Balanced mechanical property and good processability;
A complete product range;
Various material solutions with cost competitivness,
Ideal material to replace ABS, HIPS and some engineering materials.

KINGFA' s modified polyolefin materials have been developed into a complete product category to meet various application requirements, products including mineral reinforced modified PP, glass fiber reinforced modified PP, flame-retardant modified PP, modified PE, and polyolefin elastomer.

The modification of the polyolefin materials mainly focus on the material mechanical properties, flame retardance, weather resistance, low temperature resistance, heat resistance, electrical properties, spray plating property, laser marking property, scratch resistance, mold resistance and processibility, on the precondition of filling the material functions, to provide comprehensive balanced mechanical properties and meet the diversified requirements of home appliances, automobiles, electronics and electrical, sanitary ware, stereo, electric tools, gardening tools, toys, water treatment equipment, storage batteries, office furniture, sports equipment, and construction. The polyolefin material can be processed by various molding methods such as injection molding, extrusion molding, blow molding, blister molding, rotational molding, and compression molding.

KINGFA' s modified polyolefin materials has realized the comprehensive balance of material mechanical properties, functionality and cost through diversified modified technologies, providing all industries with various technology solutions for product upgrade and cost control, reflecting KINGFA' s unremitting efforts to serve customers and to offer them competitive technology solutions.







AXS Material

Complete product range and widespread use



Most complete product range of the modified AXS material in China;
Years of rich experience in developing and manufacturing the modified AXS material with excellent customer service;
Diversified solutions with cost competitiveness for customers.

KINGFA' s AXS material category is composed of flame-retardant AXS, reinforced AXS, AXS alloy, weather resistant AXS and environmentally friendly recycled AXS, covering 14 series and total 40 grades, and have been put into wide applications of home appliances, electronics, automobiles, construction, toys, sports equipment, and medical devices. The whole flame-retardant AXS series, including two major products, environmentally friendly deca flame-retardant AXS and non-halogen flame-retardant AXS, has received the UL certification. The high flame-retardant rating and outstanding stability of processibility have earned us the biggest market share in the flame-retardant AXS industry for many years. Reinforced AXS material includes reinforced ABS, AS and ABS alloy. This series of materials have high mechanical properties, good dimensional stability and are mainly used for structural components. KINGFA is the first enterprise to successfully develop a series of high gloss reinforced AXS materials in China, expanding the application of reinforced AXS material to a wider range and providing a high gloss and dimension stable material solution for the home appliances and OA industry. AXS alloy series is consist of such products as ABS/PMMA, ABS/PBT, ABS/PET, and ABS/PA. The alloying with engineering plastics has given the ABS material better chemical resistance, impact strength and surface appearance. With weather-resistance from low to high, the ABS, ASA, AES and PMMA have made up the weather-resistant AXS material series, which can be widely used for indoor and outdoor applications and meet the weather resistant requirements of automotive and building materials. Environmentally friendly AXS material mainly refers to post-consumed modified ABS with ABS base and post-consumed ABS/PET alloy with PET base. As the post-consumed materials can contribute to lowering carbon emission, products using such materials can be easily certified with the EPEAT-GOLD, as a result, these materials are commonly used in the IT and OA industry.

AXS material can be processed by injection, extrusion and blow molding, at the same time, it has good secondary processing performance in process such as spray painting, electric plating, welding, etc. After years of technology accumulation, we have gained rich application experience of the AXS material in many industries, and through close cooperation with the upstream compounding companies, KINGFA can offer customers with competitive and various AXS material solutions.









KINGFA

Modified PS Material

Complete product range, advanced technology, widespread use



Good overall performance and processability;
Complete product range;
Most desirable solutions for customers

KINGFA has developed a complete product range for the PS material to meet various application demands and provide customized solutions for different customers.

Because of good overall performance and procesibility, PS material has been widely used in such fields as electronics and OA with great consumption , and can be processed through injection molding and extrusion molding.

As KINGFA' s star product, our flame-retardant modified HIPS material has been developed into a mature product with a wide range of applications after nearly 20 years of technology accumulation and innovation. We have been awarded the National Prize for Progress in Science and Technology, Provincial Prize for Progress in Science and Technology and a number of patents for invention during the development of the material, which has a full range of UL yellow card certified grades, and fulfills all the laws and regulations of environmental protection, covers all requirements regarding weather resistance, liquidity, roughness and rigidity. The material has been used in all electronic industries and maintained a big market share.

PC Material

Generality and widespread use



Great comprehensive mechanical properties, heat-resistance and dimensional stability;
A complete product range;
Diversified solutions with cost competitiveness for customers

KINGFA has independently developed several series of environmentally friendly PC and PC alloy products which have been granted the proprietary intellectual property rights. The PC modified material includes modified PC, PC/ABS alloy, glass fiber reinforced PC and PC/PS alloy. We have also developed a complete product range of functional products with toughness, weather-resistance, flame retardance, high and low temperature resistance, high gloss, reinforce, recycle and optical properties according to the demands of customers. These materials are applied to various processing methods such as injection molding, extrusion molding, blow molding and curtain coating. 98% of the materials are non-halogen products and all certified with UL yellow card. Applications involve OA, electronic and electrical, automobiles, communication, home appliances, electric power tools and lighting.



High-performance environmentally friendly automotive materials

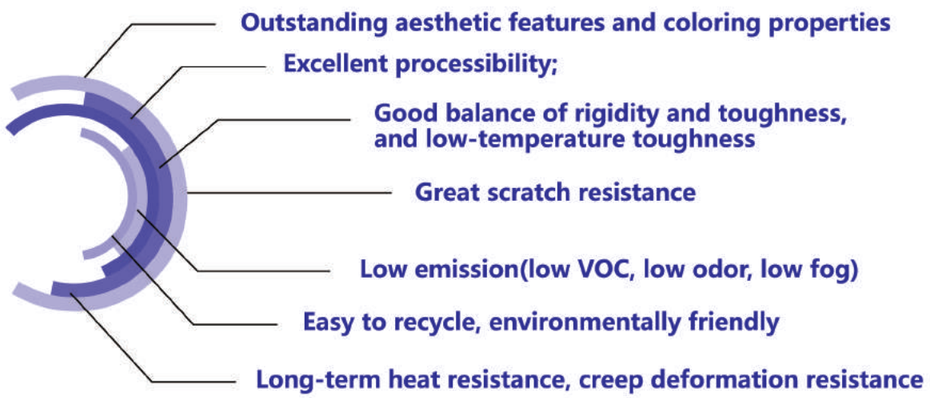
Solutions of automotive high polymer materials

Automotive Modified high polymer materials products which are successfully developed by Kingfa are widely used in inside and outside decorations, chassis, powertrain and automotive electronic components and so on.

With the continuous innovation of material technology, expansion of application technology , optimization of component design and improvement of CAE analysis ability, Kingfa's automotive materials are becoming the provider of integration solutions quickly.

KINGFA has developed a complete product range for the automotive material, products including modified PP, modified PC, modified ABS and PC/ABS, modified PA6/ PA66, and modified PBT/PET, to meet various application demands.

We provide clients with the overall solutions of inside and outside decorations and peripheral parts of engine, containing the front-end module, the dashboard , dashboard framework, basic door, bumper, pillar, intake manifold, valve chamber cover, engine decorative cover, the air conditioning system, water chamber and other parts. Our materials have been widely used in main models of the European, American, Japanese, Korean and Chinese automotive brands, such as Volkswagen, Ford, GM, Nissan, Honda, Toyota, Changan, Cherry. The materials have below great properties





Electric Effect Materials

Generality and widespread use

Special antistatic property, static dissipation and conductivity;
A complete product range;, 10-$10^{12}\Omega$ surface resistivity;
A variety of solutions.

The electric effect materials cover a broad range of product category, if classified by resin types, the materials include general plastics, engineering plastics, and elastomer, which can be processed by injection molding, extrusion molding and blow molding, to meet various application requirements.

Compared with traditional plastics, electric effect materials stand out because of its unique antistatic property, static dissipation and conductivity. The materials have played an irreplaceable role in the application in the IT, OA, home appliance and automobile industry. They are conducive to eliminate the statics generated during the use of the products, improve the product quality and protect personal and property safety.

KINGFA' s electric effect materials consist of 3 major series, carbon black filled electro conductive plastics, carbon fiber reinforced electro conductive plastics and permanent/ impermanent antistatic plastics. Carbon black filled electro conductive plastics are mainly used for electric packaging (carrier tape/ carrier tape plate), IC tray, antistatic turnover box and conductive toys; carbon fiber reinforced electro conductive plastics are mainly used for the core parts of printer, copier, ATM, sports equipment, notebook and textile equipment; permanent/ impermanent antistatic plastics are used for container, cleaner, blister sheet, turnover box and electric product support. KINGFA' s electric effect materials are granted the proprietary intellectual property rights and are involved in the technical area of carbon black filled and dispersion technology, carbon fiber surface treatment technique, reinforced and modified technology and antistatic material low cost technology.

The development of electric effect materials has created a new market demand and led the market to a new development direction. It is not only an example of KINGFA being committed itself to exploring innovative and successful material solutions to meet the market demands, but also a true reflection of KINGFA' s strong R&D ability and the globalized service system.

Materials for Extrusion Molding

Product of the Extrusion Material Division contains the following categories:

Pipeline anti-corrosion materials, steel-plastic composite adhesives, gas-permeable membrane special materials, functional masterbatch, halogen-free flame retardant cable materials and modified recycled polyethylene products.









Gas-permeable Membrane Material

In 2005, Kingfa began to develop special materials for polyethylene breathable film special material. Relying on strong R&D strength and testing platform, the high-performance metallocene polyethylene and ultra-fine activated heavy calcium carbonate were blended and modified by advanced imported high-speed twin-screw extruder, which successfully solved the highly filled micro-nano powder dispersion technology. Then Kingfa produced special materials with water-blocking and air-breathing functions with processing stability, which fills the domestic technology gap and is widely used in maternal and child health products, medical protective clothing, building waterproof materials and other fields.

The technology of breathable film special material of Kingfa has the characteristics of high moisture permeability, good dispersibility, low smoke, low precipitation, uniform thickness. It has won unanimous approval from customers for its excellent mechanical properties and stable processing performance. After more than ten years of technical research, Kingfa has developed a series of breathable film special material and blown film products including positioning cutting, super soft high permeability, yellowing resistance, penetration resistance, and has become the largest manufacturer of special materials for breathable film special material in China. In 2016, Kingfa participated in the drafting of the national standard for polyethylene (PE) breathable film special materials (GB/T 33319-2016). In 2017, Kingfa' s special material for breathable film was named as Guangdong famous brand product. In 2018, breathable film special material achieved production and sales of nearly 30,000 tons.

Functional masterbatch

The functional masterbatch of Kingfa is a concentrated masterbatch made of PP, PE and other resins as a carrier by adding various functional additives. It has the advantages of complete variety, innovative function and stable quality. The products include pearlscent masterbatch, extinction masterbatch, anti-blocking masterbatch, slip masterbatch, antistatic masterbatch, color masterbatch, etc., which are widely used in packaging, construction materials, daily chemical industry. Especially in the BOPP, CPP, POF industry, with years of technical accumulation and market development, the masterbatch with low precipitation and high dispersion developed by Kingfa has become the material of choice for customers in the film industry, providing customers with a full range of solutions.

Low-smoke halogen-free cable material

Compared with traditional PVC cable materials, low-smoke halogen-free flame retardant polyolefin cable materials have low smoke and low smoke toxicity, which are widely used in densely populated places. Kingfa applies "ultra-dispersion technology", "surface modification technology", "micro-crosslinking technology" and "co-effect flame retardant technology" to the formulation design and process improvement of low-smoke halogen-free flame-retardant polyolefin cable materials. Our low-smoke, halogen-free materials have high flame retardant, high carbon content, low heat release, excellent crack resistance, excellent processing speed and machine adaptability, long-term water resistance and good insulation properties.

Our low-smoke and halogen-free materials are widely used in densely populated areas such as urban subways, rail transit, and large-scale stadium buildings. Applications include power cables, home wiring, indoor and outdoor optical cables, electronic cables, photovoltaic cables, and marine cables, all of which have achieved good reputation in the industry.



Anticorrosion Pipeline Material

Kingfa's special anti-corrosion polyethylene products have excellent mechanical strength and toughness, high environmental stress crack resistance, superior UV resistance and heat aging resistance. We are able to provide various products to meet different standards including Chinese standard GB/T 23257-2009, German standard DIN30670, French standard NF A 49-710, international standard ISO/DIS 21809 and Canadian standard CAN/CSA Z245.21. Kingfa's special polyethylene for pipeline anti-corrosion has a wide processing adaptability and can adapt to most types of extrusion equipment. In the past ten years, it has not only been applied to almost all domestic oil and gas long-distance pipelines, but also used in the oilfield transportation and local oil and gas pipeline networks with cumulative sales of over 200,000 tons by the end of 2018.

The polypropylene and polypropylene copolymer adhesive for pipeline anticorrosion is used as the outermost anticorrosive material and intermediate adhesive layer in the 3L-PP high temperature anticorrosive coating. It meets the German standard DIN30671, the French standard NFA 49-711 and the international standard ISO/DIS 21809, and has been successfully applied in more than ten pipeline projects at home and abroad.

Polyethylene copolymer adhesive is used as an intermediate adhesive layer in 3L PE anti-corrosion layer. It has excellent adhesion to FBE and outer polyethylene, and has excellent processing properties, mechanical properties and aging resistance. Its performance meets Chinese standard GB/T23257-2009. German standard DIN30670, French standard NF A 49-710, international standard ISO/DIS 21809 and Canadian standard CAN/CSA Z245.21, which has been successfully applied in more than 100 pipeline projects at home and abroad.

Functional Masterbatch

Based on advanced reactive extrusion technology, steel-plastic composite adhesives have excellent properties for adhesive steel. For the structure and manufacturing process of different types of metal-plastic composite pipes, the technology of steel-plastic composite adhesives of Kingfa is finely adjusted to the melt properties and mechanical properties of the matrix resin, which give full play to the adhesion to the metal, and maintain high compressive resistance strength and toughness.

Modified recycled polyethylene

The technology-modified recycled polyethylene products realize waste recycling and high-quality utilization of polyethylene through low-odor/VOC technology, microstructure and processing rheology control technology, and compatibilization technology. It is widely used in daily chemical packaging, pipelines, cables, films, etc. In 2018, Kingfa used 60,000 tons of recycled polyethylene in production to fulfill social responsibility as a leading enterprise in the industry, and contribute to solving global plastic pollution problems.

Special Engineering Plastics

Generality and widespread use

KINGFA has a professional technical and marketing team, who Engaged in synthesis and modification of semi aromatic polyamide, liquid crystal polymer, poly aryl ether ketone, poly aryl ether ketone, etc., to provide customers with competitive products and all-round technical support.

■ Vicnyl® HTPA—High heat resistant semi-aromatic polyamide

Vicnyl® HTPA, a high heat resistant semi-aromatic polyamide material, including PA10T, PA6T/66 and PA/6I, has total proprietary intellectual property rights from resin compounding to modifying. Vicnyl® PA10T is a biobased material, with one of its monomers, decamethylene diamine, which comes from a recycled resource—the castor-oil plant, occupying about 50% of the total monomers weight. Certified by the authoritative Vincotte, the bio-carbon content in Vicnyl® PA10T reaches about 40~60% of the total weight.

Vicnyl® PA10T has the lowest water absorption among the commercialized semi-aromatic polyamide, resulting in higher dimensional stability, higher impact strength and rigidity retention rate after long-term use in the environment with high humidity and temperature. It also has the best long-acting cooling liquid resistance. Outstanding heat resistance and reflow soldering resistance are the other features of Vicnyl® PA10T, which reaches Level 1 of the MSL when tested by IPC/Jedec J-STD 020D standard. Vicnyl® PA10T is widely used for connector, LED reflection support, automobile engine surroundings, IT/OA structural frame, and water heating parts, as well as to replace metal for some applications.

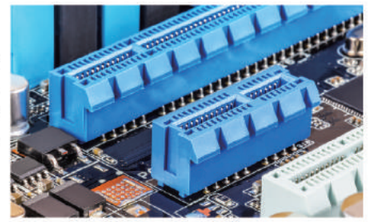


■ Vismid™ NMT-Nano-Molding Technology

Nano-Molding Technology (NMT) is a new technology that directly injects plastic onto metal surfaces by in-mold injection to form a strong bond to replace traditional bonding, in-mold over-molding, metal riveting, etc, thus achieving a lighter weight and other purposes, and providing a cost-effective hardware / plastic overall product. VisplimTM NMT is a high-performance material for nano-molding processes based on polymers such as PBT, PPS, PPSU and PEEK. It has strong adhesion to metals and stable color before and after anodes. It is mainly used in mobile phone frame, pad frame and other plastic-metal tight joints.

■ Vicryst™ LCP—High-performance LCP

Vicryst™ LCP is a total aromatic polyester with high flowability, dimensional stability, great heat resistance, self flame retardance and SMT compatibility, mainly used for connector automotive electrical and electronics, ultrathin fan and ect.



■ Viscon™ PPSU/PESU—High Performance Polyphenylene Sulfone/Polyethersulfone

Visulfon™ PPSU/PESU has outstanding heat resistance and creep resistance; excellent size stability, chemical resistance, heat -water resistance ; performance of superheated steam and good transparency. It' s mainly used in electrical, automotive, plumbing, food hygiene and coating, etc.

■ Vismid® LDS - High Performance Laser Direct Forming Plastics

Laser Direct Structuring, or LDS for short, is a method of processing ultra-fine circuits on a resin substrate with a laser. It has high design freedom and high cost-effectiveness. VismidTM LDS's matrix polymers include PC, PC/ABS, PA10T, LCP and PEEK, which is suitable for LDS process and applied in antennas, sensors and other 3D integrated circuits.



Injection molding | Laser structuring | Cu plating | Ni plating | Au plating

Modified PBT Material

Most successful solutions

Relying on the powerful technical strength, committed to responding to and meeting customers and the market demands prompt action. Development of innovative and high-performance materials, providing customers with the top-quality products and most successful solutions.



KINGFA has powerful technical strength and rich experience in the R&D and manufacturing of the modified PBT material, which holds over 40 patents. KINGFA' s PBT material includes products of reinforced PBT, toughened PBT, bromine flame-retardant PBT, and non-halogen flame-retardant PBT, covering over 600 product grades. To cope with various application demands of different industries and provide customers with multiple choices of material solutions, KINGFA has developed several alloying and functional PBT materials, such as high glass fiber PBT to replace steel, and high mineral-filled PBT to replace pottery.

Excellent mechanical properties, thermal properties, weather resistance and processability are the distinguished features of KINGFA' s modified PBT material, which has a wide range of applications, such as cooling fans, lighting, capacitors, relays, connectors, home appliances, coil formers, voltage and electrical equipments, electrical machine motors, electrical power units, office appliances, and sanitary ware. Our PBT material has occupied over 20% of the domestic market share with a stable growth every year, and nearly 50% of market share in the cooling fan industry.

KINGFA provides customers with environmentally friendly and sustainable solutions for the modified PBT material. Thanks to the state-of-the-art compounding technology and years of rich experience, we have developed a non-halogen flame-retardant reinforced PBT material with outstanding comprehensive performance, heat stability and electric insulation properties. The recycled non-halogen flame-retardant reinforced PET material is another innovative development with excellent comprehensive performance, which has a wide application and is certified with the EPEAT.



Series products of modified polyformaldehyde

Generality and widespread use

Series products of modified polyformaldehyde have rich varieties, mainly including general level, low odour level, weather resistance level , toughness, wear resistance and enhance filling level.

Series products of modified polyformaldehyde greatly improved the thermal stability of polyoxymethylene and reduce the smell in the processing procedure. It also improve the lubricity 、 toughness, strength and so on of the polyoxymethylene through the unique and diverse modification technology. Products can be widely used in automobiles, printer, sanitary ware, household appliances and machinery and other fields.



PVC Material

Product series and application field

Good overall performance and processability;
Applied to various process methods;
Product certifications such as UL, JET, etc.

KINGFA has developed a complete product range of PVC material with wide applications, which can be processed by injection molding, extrusion molding and blow molding.

PC/ABS alloy and hard PVC materials

KINGFA' s PVC/ABS alloy is a Guangdong famous brand product with outstanding overall performance such as high physical and mechanical properties, good flame retardance and weather resistance, which can be applied to various process methods-- injection molding, extrusion molding and blow molding, etc. This product series has obtained UL certifications of V0, RTI and f(1), and is widely used in the fields of electrical appliance, security and protection, automobile, etc.

PVC toy material

The whole PVC toy material series uses environmentally friendly nontoxic non-catechol plasticizer and is complied with the environment requirements of EN-71、ASTM F963、ISO8124、GB6675、ST2002、ROHS. Due to its steady base color, good heat stability, and outstanding processability, the material is widely used in the soft PVC toy field.

PVC electric wire material

PVC electric wire material has high rigidity, high elongation at break, good flame retardance, and is applied to high-speed extrusion. It can meet various hardness demands and be complied with the GB\UL\VDE\JIS standards, mainly used for different types of power lines, electric lines, and communication cables.

PVC lighting material

The general grades of PVC lighting material have the unique characteristics of high transparency, low temperature resistance, high flame retardance, and excellent shaping and molding properties, complied with the UL2388 standards, widely adopted in the industries of Christmas lighting, home lighting; KINGFA can also provide different light-scattering grades of PVC material according to the requirements of customers' and the features of the materials' .

Automobile soft PVC material

Low order, low gloss, low haze, low VOC, good surface appearance, with such good properties, our automobile soft PVC material has obtained the approval from Volkswagen, GM, and has been widely used for automobile interiors and exteriors, such as automobile sealing strips, skylight trim strips, hand brake sheaths, shift knobs.

PVC home material

PVC home material has such features as high rigidity, high toughness, good flame retardance, great weather resistance, and is widely used in indoor and outdoor decorative materials like sun fabric, textilene, and cane chairs.



Nylon Engineering Plastics

Outstanding properties, widespread use

KINGFA' s modified nylon material has the advantages of outstanding properties and easy to processed. Product series includes reinforced nylon, flame-retardant nylon, toughened nylon, nylon alloy, and nylon materials designed to replace steel, etc.



KINGFA' s nylon engineering plastics is widely used in the fields of communication and transportation, electronic and electrical, mechanical parts, electric power tools, OA, and furniture parts.

KINGFA' s reinforced modified nylon is used for components and parts of high-speed rail such as the rail pad and casing; the high pressurization resistance of reinforced modified nylon gives the high-end office chair a much longer service time, thus substantially reduce the comprehensive use-cost; great balance between rigidity and toughness, smooth surface and richness in color makes KINGFA' s reinforced modified nylon material the Number 1 choice for the outer cases and inner components of electric power tools. Besides, the consistent R&D and extensive application of new products which can meet the special requirements such as food contact, water process, and electroplate process, are significant symbols of the continuous raising of KINGFA' s scientific and technological strength in terms of the development of reinforced modified nylon material.

Nylon Engineering Plastics more than just high-tech products

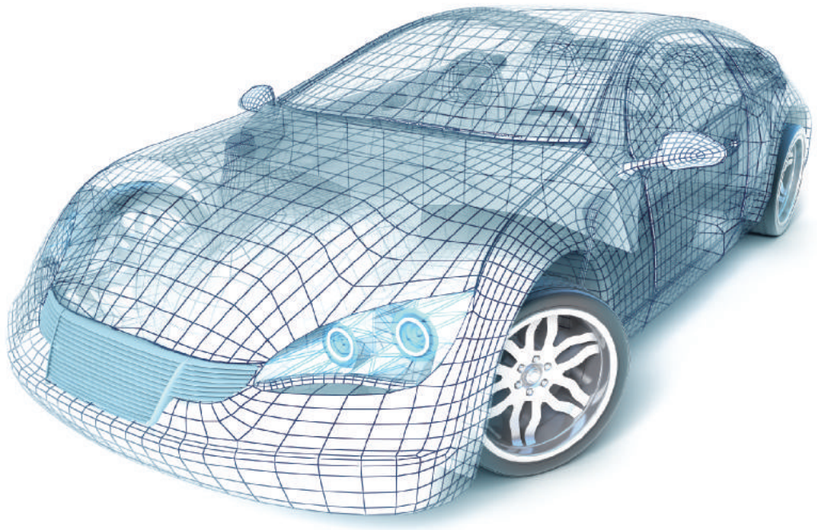
The high-rigidity and low warping nylon series truly reflects the scientific and technological achievements KINGFA has gained in the recent years. This series of nylon materials has great rigidity as metal but lower fatigue and creep deformation, more freedom for design and easier to process, which make it the best option to replace steel and aluminous. In fact, it has already been widely examined and used in those fields. The adoption of the high-rigidity and low warping nylon material can result in a 1/3 cost-down for customers, lighter weight of the parts, better energy conservation and lower emission, making it a typical representative of new materials and new applications.

KINGFA has been committed to the development and application of flame-retardant modified nylon material for nearly 15 years and now has set up 4 major series-- bromine flame retardant nylon, nitrogen flame retardant nylon, red phosphorus flame retardant nylon, and phosphine-nitrogen flame retardant nylon, all of which can meet the most updated and most rigorous environment requirements. The nitrogen flame retardant nylon, red phosphorus flame retardant nylon, and phosphine-nitrogen flame retardant nylon are non-halogen flame-retardant modified plastics, with distinguish features of low smoke, low toxicity, low heat release and great flame retardance and widely used for applications of electric connector, switch, electric connector assembly, extension socket, etc. To follow the development tendency of electric component towards thin-wall and minimization, KINGFA has developed a high mobility non-halogen flame-retardant nylon material, of which the injection parts can reach a thinness of 0.3mm.

Nylon alloy not only integrates the merits of other nylon products, but also solves the problem of lack of stability, which is a common defect of nylon products, presenting customers with high-performance materials with new functions. You can find PA/PP, PA/PE, PA/ABS and PA/PET in KINGFA' s nylon alloy product category. These products own different outstanding features, such as low water absorption and high dimensional stability for PA/PP alloy; good Oxygen barrier property for PA/PE alloy; matte appearance, high noise absorption and good hand feel for PA/ABS alloy; and better cost efficiency for PA/PET alloy.

KINGFA' s nylon engineering plastics has opened up a new market and evoked a new thinking of customers. It is not only an example of KINGFA being committed itself to exploring innovative and successful material solutions to meet the market demands, but also a true reflection of KINGFA' s strong R&D ability and the globalized service system.







High-performance LFT Composite Material

Generality and widespread use

Good overall performance and processibility;
Ideal innovative material in the new industry to replace metal and conventional engineering plastics.

KINGFA has developed a complete product range of LFT composite material to meet the various application demands, products including LFT-PP, LFT-PA66, LFT-PA6 and LFT-TPU, etc.

KINGFA' s LFT composite material has realized the transformation from general plastics to engineering plastics, and improved the performance of engineering plastics to a new level while maintaining the cost competitiveness. The material products perform outstandingly in terms of rigidity, impact strength, creep deformation resistance, corrosion resistance, dimensional stability, low warping and heat resistance. Due to its lower cost and lighter weight, the LFT composite material is the first choice of plastics to replace metal to realize the lightweight of automobile. It is a common material used in the electric power tools, washing machines, cooling fans, seats and batteries, too. The LFT composite material can be processed with injection molding, as well as processing methods like mold pressing.

KINGFA' s LFT composite material has two major series-glass fiber reinforced series and carbon fiber reinforced series, products including LFT-PP, LFT-PA66, LFT-PA6, LFT-TPU, etc., with fiber content ranging from 15% to 60%, to ensure its extensive use in various applications such as automobiles, home appliances, electric power tools, furniture, batteries and building templates, etc.

KINGFA LFT composite material has opened up a new market and evoked a new thinking of customers. It is not only an example of KINGFA being committed itself to exploring innovative and successful material solutions to meet the market demands, but also a true reflection of KINGFA' s strong R&D ability and the globalized service system.



Green Plastics



Generality and widespread use

Good overall performance and processibility;
Complete product range;
Diversified solutions with cost competitiveness for customers

ECOPOND® Green Plastics is a widely used product series. It can meet a variety of application requirements.

Compared with the traditional plastic products, ECOPOND® Green Plastics is more friendly to the environment. It has better mechanical property, surface appearance, and cost performance, but shorter process cycle than those of the materials in the same category. Besides, ECOPOND® Green Plastics enables customers to process with traditional extrusion and injection molding machines, as well as other various molding techniques without any problems.

ECOPOND® Green Plastics covers 2 series and 9 general grades, including products of total bio-degradable plastic resin, biobased plastic resin, and modified plastic products of total bio-degradable plastic resin. It has been widely used in these three major fields, plastic membrane, injection parts, and blister parts, for products such as shopping bags, packaging, gloves, agricultural film, toys, frame of electrical equipment, containers, etc. ECOPOND® Green Plastics is granted the propriety intellectual property rights and involves its product series in the technical areas of the compounding and modifying of co-polyester resin, the application and development of natural materials and biobase resins. KINGFA' s total bio-degradable plastic product is awarded the international authorized certifications such as cEN-13432、ASTM 6400, etc.

ECOPOND® Green Plastics has opened up a new market and evoked a new thinking of customers. It is not only an example of KINGFA being committed itself to exploring innovative and successful material solutions to meet the market demands, but also a true reflection of KINGFA' s strong R&D ability and the globalized service system.



Carbon Fiber And Composites

Generality and widespread use

Devoted to innovative, high-performance and light-weight composites solutions.

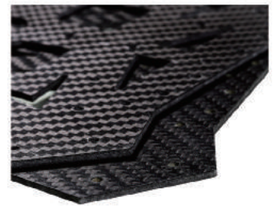
Kingfa Carbon Fiber Company fulfills customers' multiple requirements by supplying industries a wide range of lightweight products including continuous fiber reinforced thermoplastic composites UD tapes and their laminated panels (Organosheet), sandwich panels, long carbon fiber thermoplastic compounds, carbon fiber thermoset composites parts etc.

We offer our customers in divers industries multiple innovative lightweight solutions and technical support from design till mass production to assist them fast enter markets, such as automotive, transportation, pipes, electronics, constructions, sports facilities, with lightweight products.



■ Carbon Fiber Reinforced Polymer, CFRP

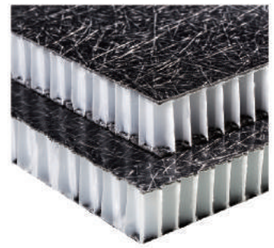
High-performance carbon fiber reinforced thermoset composites with extrodinary high strength, high stiffness and low density, can replace metal material like Aluminum alloy in many applications.



■ Continuous Fiber Reinforced Thermoplastic Composites, CFRT

Continuous fiber reinforced thermoplastic UD tapes combine a wide range of polymers, e.g. PP, PE, ABS, PA etc with endless fibers in full dimensions, to be applied in extruded pipes and panels in multiple applications with extremely high strength.

Continuous fiber reinforced thermoplastic panels(Organosheet) combined with over injection molding process can offer customers fast and flexible design and production of composites parts in automotive applications, such as seat structure, door carrier, crash beam etc. with more than 30% weight reduction and 1~2 minutes cycle time.



KingecoPan™ CFRT panel laminated with finishing films and nonwoven mats can be applied in transportantion vehicles to replace steel or aluminum panels to massively reduce the weight, and with good impact protections.



■ Sandwich Composite Panel

FantasPan™ sandwich panel with PP and glass fiber reinforcements offer automotive industry a lightweight, glue-free and cost efficient solution in interior applications with good mechanical performance, low odor and low VOC properties to meet more strict enviromental regulations.

■ Long Fiber Reinforced Thermoplastic Composites

Long Carbon Fiber Reinforced Thermoplastic Composites LCFT™ is a light and strong material candidate for injection molders to be applied in the applications potentially for high performance purpose and with good production efficiency.



Light hydrocarbon and hydrogen energy

Generality and widespread use

Ningbo Kingfa is mainly engaged in the production and sales of light hydrocarbons and hydrogen energy, providing customers with competitive products and diversified services.

Hydrogen is widely applied in the petrochemical industry, electronics industry, metallurgical industry, food processing, float glass, fine organic synthesis, and aerospace. In the petrochemical industry, hydrogen is the necessity in hydrocracking and hydrofining. In the manufacture of electronic microchips, hydrogen can improve product quality as one of the protective gases. As a clean fuel and a substitute for fossil energy, hydrogen can be used in fuel cells, power generation and other fields. The hydrogen energy industry has rich connotations and huge development potential. Many provinces have issued hydrogen energy industry plans.

Ningbo Kingfa was established in April 2011 with a registered capital of 3.431 billion yuan and a total area of nearly 1,450 mu. Ningbo Kingfa is located in the economic center of the southern wing of the Yangtze River Delta, adjacent to the deepwater Beilun Port and Ningbo Petrochemical Economic Development Zone. It has unique advantages in geographical transportation and industrial cluster development.



■ Propylene

Propylene is an important organic chemical raw material. The sources of propylene are mainly divided into three categories: refinery catalysis, naphtha cracking, coal or methanol to olefins, and propane dehydrogenation. It is mainly used to produce polypropylene, acrylonitrile, propylene oxide, acrylic acid, isopropanol, n-butanol/octanol and acetone, etc. In China, most propylene is used to produce polypropylene, and some are used to produce propylene oxide and acrylonitrile. It is widely used in packaging, automobiles, home appliances and other industries.

■ Isooctane

Isooctane is mainly used to add to gasoline to form blended oil to improve quality. It features high octane number, low vapor pressure, and has no sulfur, no aromatics, no olefin content, and no oxygen content, playing a key role in upgrading domestic gasoline quality.

While gasoline will remain to be the main fuel in the near future, isooctane products are still highly competitive in the market. The addition of isooctane can not only improve the cleanliness of gasoline, but also promote the full combustion of other components in gasoline, reduce the emission of harmful substances in automobile exhaust, and reduce the potential for ozone generation. Isooctane plays a significant role in reducing automobile exhaust pollutant emissions and improving the atmospheric environment, which enjoys bright prospects.

■ Methyl ethyl ketone

Methyl ethyl ketone, is an organic solvent with excellent performance and a wide range of uses. It is miscible with a variety of hydrocarbon solvents and has excellent solubility and drying characteristics, including dewaxing of lubricating oil, coating industry and various resins solvent, vegetable oil extraction and azeotropic distillation in the refining process. Meanwhile, it is also an intermediate for the preparation of medicines, dyes, detergents, fragrances, antioxidants and some catalysts, a necessary solvent the synthesis of methyl ethyl ketoxime (anti-skining agent), methyl ethyl ketone peroxide (polymerization catalyst), methyl pentynol corrosion inhibitor, etc., and also used in the electronics industry as a developer after integrated circuit photolithography.

Medical healthcare products

Generality and widespread use

Kingfa established the Medical and Health Product Department to coordinate the daily operation and management of the R&D, production and sales of health protection products. The company completes the layout from raw materials to epidemic prevention terminal products, which covers the entire industrial chain and provides customers and industries with overall solutions for epidemic prevention materials, products and services.

At the beginning of 2020, the COVID-19 epidemic broke out across the country. Kingfa is one of the largest modified plastics companies with the most complete product categories in the advanced chemical materials industry in the Asia-Pacific region. As a leading company in the advanced materials industry, relying on the national key experiment, national engineering laboratory, academician workstation and postdoctoral workstation platform, combined with its own polymer material technological innovation capabilities, Kingfa has invested nearly 1 billion yuan in R&D and technological transformation, and developed a full series of epidemic prevention products and a complete industrial chain of protective materials, including special materials for breathable films of medical protective clothing, special materials for melt-blown polypropylene, electret masterbatch, high-performance melt-blown fabric, masks and protective clothing. In the future, Kingfa will successively launch daily protection products with high air permeability and high comfort, high-end medical anti-virus and anti-bacterial and nano-high air permeability products, and create more medical and civilian protective products.





■ Special materials for breathable films of medical protective clothing

The breathable film is the core material of protective clothing, which is made of special material for breathable film after extrusion and longitudinal stretching. During the stretching process, the breathable film forms interconnected pores or channels. Based on the dual effects of surface tension and capillary effect, these pores and channels can permeate water vapor and block droplets, making the film breathable (moisture permeable) and waterproof.

■ Electret masterbatch

The electret material gives the meltblown fabric magical power, which makes the meltblown fabric not only mechanically block during filtration, but also has the effect of electrostatic adsorption. It can improve the electrostatic adsorption capacity of the meltblown fabric during the air filtration. Relying on Coulomb force, it can directly attract and capture the charged particles in the gas phase, or induce the neutral particles to generate polarity and then capture them, so as to more effectively filter the sub-particles in the gas carrier phase, greatly enhance the filtration efficiency and persistence, while the air resistance will not increase.

■ Special materials for meltblown polypropylene

With the market promotion, higher quality requirements for low odor and low impurities materials are put forward. On the basis of a series of experimental research and Kingfa' s mature low-odor technology, the odor level of our products has reduced from 4.5 to 3.5, reaching the leading level in the industry. The company implements strict control in raw materials selection, production environment and process control, to ensure the low impurity content of the product, greatly extend the spinneret cleaning cycle, which wins the recognition of customers.

■ Melt-blown fabric

Melt-blown fabric, the core filter layer of the mask, is made of special melt-blown polypropylene material and high efficient electret masterbatch. With the stretching high-speed air flow, its fiber diameter can reach 1~5um. The protective effect of the melt blown fabric is to capture the fine particles in the air through the dual effects of mechanical barrier and electrostatic adsorption, so as to achieve high efficiency and low resistance.

■ Masks

In order to highlight the advantages of raw materials, Kingfa has achieved full coverage of mask categories with over 30 types, it mainly includes: flat mask with thin ear loops (for adults and children), flat mask with wide ear loops (for adults, civilian and medical grade), tie-on mask (for adults, surgical grade), foldable three-dimensional protective mask (civilian and medical grade), duckbill protective masks and cup-shaped protective masks. Now Kingfa continues to develop masks for civilian use, medical use and labor protection, creating star products of our own brand.

■ Gloves

With the production of masks and protective clothing, Kingfa entered the medical and health products industry, and the gloves project aims to become an important part of building the Kingfa medical product industrial cluster. Relying on the State Key Laboratory of Modified Polymers and Kingfa' s platform, the company develops and provides high-quality products for the global market, give full play to its unique material advantages, modify the raw materials of nitrile gloves, achieve product performance upgrades and cost reductions, creating more possibilities for gloves products and industries.

■ Protective clothing

Protective clothing refers to the clothing that protects humans from all kinds of injuries. According to the national industrial structure adjustment catalog, protective clothing now belongs to public safety and emergency supplies. The COVID-19 epidemic has promoted the technological development and production capacity of protective clothing products. At present, there are many levels of protective clothing at home and abroad, with different product requirements. Compared with foreign protective clothing, the main bottleneck of domestic products lies in fabrics. How to achieve stable and excellent core indicators and qualified products for different occasions and requirements is a long way to go. In the future, Kingfa will increase its investment in protective clothing products, use a powerful scientific research platform to break the limitations of materials and develop more domestic special protective clothing.

Electroconductive Products Series

Products	Series	Category	Mark rules	Specifications	
Electromagnetic shielding	general resin	ABS	SP100-SF* NC001	injection molding, metal fiber, electromagnetic shielding, good appearance	communication, security equippment, auto
	engineering plastics	PC	SP200-SF* NC001	injection molding, metal fiber, electromagnetic shielding, good appearance	electronics, communication, security equippment, auto
		PA6	SP60*-SF*NC001	injection molding, metal fiber, electromagnetic shielding, good appearance	electronics, communication, security equippment, auto
		PA66	SP60*-CG*	injection molding, carbon fiber, electromagnetic shielding, good appearance	auto, communication
	elastomer	SEBS	SP55-SF*NC001	injection molding, metal fiber, electromagnetic shielding, good appearance	electronics, communication, security equippment, auto
Carbon fiber reinforced series	general resin	PP	SP1100-Cxx	carbon fiber reinforced, electroconductive, easy shaping, low cost	auto component, furniture
		ABS	SP100-Cxx	carbon fiber reinforced, electroconductive, easy shaping,	electronics
			SP100-Cxx FR	carbon fiber reinforced, electroconductive, flame retardant	electronics, office tool, instrument
			SP100-CGxx	carbon fiber reinforced, electroconductive, easy shaping,	electronics, office tool
			SP7100-CGxx	carbon fiber reinforced, electroconductive, easy shaping,	electronics, office tool, instrument
	engineering plastics	PC	SP200-Cxx	carbon fiber reinforced, electroconductive, stiffness,good toughness	electronics, ESD
			SP200-CxxFR	carbon fiber reinforced, electroconductive, flame retardant	electronics, ESD
			SP200-Cxx XTFE	carbon fiber reinforced, electroconductive, wear resistant	electronics, ESD
		PBT	SP400-Cxx	carbon fiber reinforced, electroconductive, good appearance	electronics, ESD
			SP400-CGxx	carbon fiber composite reinforced, electroconductive, good appearance	electronics, ESD
		PA6	SP600-Cxx	carbon fiber reinforced, electroconductive, high strength and toughness	auto, electrical tool, UAV
			SP600-CGxx	carbon fiber composite reinforced, electroconductive, high strength and toughness	auto, electrical tool
			SP600-Cxx FR	carbon fiber reinforced, electroconductive, flame retardant	auto, electrical tool, UAV
		PA66	SP601-Cxx	carbon fiber reinforced, electroconductive, high strength and toughness	electrical tool, sports tool, auto, UAV
			SP601-CGxx	carbon fiber composite reinforced, electroconductive, high strength and toughness	auto, electrical tool
			SP601-Cxx FR	carbon fiber reinforced, electroconductive, high strength and toughness,flame retardant	electronics, electrical tool, auto
			SP601-Cxx XTFE	carbon fiber reinforced, electroconductive, high strength and toughnesswear resistant	electronics, electrical tool, auto
		PPE	SP7200-Cxx	carbon fiber reinforced, electroconductive, high temperature resistance, dimensional stability	IC pallet
		PPS	SP3200-Cxx	carbon fiber reinforced, electroconductive, high temperature resistance, dimensional stability	motor, electrical tool
	elastomer	TPU	SP57-Cxx	carbon fiber reinforced, electroconductive, high toughness	auto component
			SP57-Cxx XTFE	carbon fiber reinforced, electroconductive, wear resistant	auto component
Electroconductive carbon black modified series	general resin	PP	SP1100-Exx	injection molding, injection molding/ extrusion, permanent antistatic	pallet, electronics packaging, turnover box
		ABS	SP100-Exx	injection molding, permanent antistatic	pallet, packages
		PS	SP15-Exx	injection molding, permanent antistatic, no dots	carrier tape, electronics packaging
	engineering plastics	PC	SP200-Exx	injection molding, permanent antistatic	carrier tape, electronics packaging
		PA	SP600-Exx	injection molding, permanent antistatic	office equippment, security equippment
		PPE	SP7200-Exx	injection molding, permanent antistatic	electronics packaging
CNT modified series	general resin	PS	SP15-Nxx	injection molding, permanent antistatic, clean	carrier tape, electronics packaging
	engineering plastics	PC	SP200-Nxx	injection molding, permanent antistatic, clean	carrier tape, electronics packaging
		PA	SP600-Nxx	injection molding, permanent antistatic, clean	office equippment, security equippment
		PPE	SP7200-Nxx	injection molding, permanent antistatic, clean	electronics packaging

Auto materials series products

Series	Category	Mark rules	Specifications	Application domain
Auto polyolefin series	interiors	API-0011	PP/PE,balance between stiffness and toughness	interiors including pillar
		API-3307	PP/PE,high toughness	door panel,interiors including pillar
		API-0510	PP+EPDM-TD05,low temperature toughness, low odor, low VOC	airbag blast pillar
		API-0520	PP+EPDM-TD10,low temperature toughness,scratc resistance, low odor, low gloss	airbag blast pillar
		API-1025	PP-TD10,high melt index, high stiffness, low odor, low VOC	door panel,interiors including pillar
		AIP-2503HI	PP+EPDM-TD15,low temperature toughness,scratch resistance, low odor	high impact resistance door panel
		API-1530	PP-TD15,high stiffness, low gloss, low odor	door panel,interiors including pillar
		AIP-2016	PP+EPDM-TD2O,balance between stiffness and toughness,scratch resistance, low odor	door panel,interiors including pillar
		API-2230	PP-TD20,high melt index, high stiffness, low odor	interiors including pillar
		API-2500	PP-TD25,high stiffness, high weather resistance, low odor, low VOC	interiors including pillar
		API-3015 TD	PP-TD35,filled with titanium dioxide ,high stiffness, low light tranimittance	instrument panel components
		API-4008	PP-TD40,high stiffness, high weather resistance	instrument panel components
	engine component /structural holder	PP-KF06	PP-TD20 high stiffness,high temperature resistance	air-conditioner,air filter,air hose
		PP-KF08	PP-TD40,high stiffness,high temperature resistance	air-conditioner,air filter,light base
		PP-YT40	40% mica,high stiffness	throttle
		GFPP-xx UV	glass fiber reinforced,high stiffness,high temperature resistance	holder,parts
		API-CG<unk><unk>	glass fiber reinforced,high stiffness,high temperature resistance	holder,parts
	interior material for school bus	API-1815	PP+EPDM-T20,balance between toughness and stiffness,high oxygen index	school bus interiors
	PC/ABS	MAC-301	good heat resistance, high impact resistance,high flow	door panel, decoration trim, spoiler
		MAC-451	excellent mechanics balance, high flow, high temperature resistance, anti-UV	auto interiors, light decoration circle, instrument panel, auxiliary instrument panel,instrument frame
		MAC-601		
		MAC-701		
		MAC-451 PG	high temperature resistance, high dimensional stability, excellent electroplate performance, good mechanics performance	grille, decoration trim, door handle
		MAC-601 AS	low noise, high temperature resistance, high dimensional stability, good mechanics performance	auto interiors, armrest
		MAC-3525	low gloss, high flow, anti-UV	control panel, defrost grille, instrument panel
	PC/PBT &PC/PET	LONOY-1200	good heat stability and dimensional stability, excellent mechanical property,excellent solvent resistance	radiating grille, radar holder, car headlamp clean cover
		LONOY-2100		
Auto engineering plastics series	PC/ASA	AAC-701	high temperature resistance, high dimensional stability, excellent mechanical property, excellent weather resistance	rear view mirror, skylight
	highlight black product (ASA&PMMA)	RS-9320	scratch resistance, high weather resistance, highlight black	pillar decoration board, triangle boardexteriors
		RS-9123	highlight black, high toughness, high weather resistance	grille, pillar decoration board exteriors
		RS-9508	highlight black, high toughness, high weather resistance	grille, triangle boardexteriors
		RS-5218	highlight black, high toughness, high weather resistance	grille, triangle boardexteriors
	ABS	HR-527	normal temperature resistance (Vicat ≥90℃)	auto interiors, exteriors,
		HR-527A	medium temperature resistance (Vicat ≥100℃)	
		HR-527B	high temperature resistance (Vicat ≥105℃)	
		HR-527B AS	low noise, high temperature resistance, high dimensional stability	
		HC-110	electroplate, high flow, high dimensional stability	
	ASA	ASA-W120	high temperature resistance, high weather resistance, excellent mechanical property	grille, triangle boardexteriors

PP Products series

Series	Category	Mark rules	Specifications	Application domain
Polypropylene Alloy	PP/PS alloy	Propalloy-1(F)	Easy spray, low shrinkage	Electric appliance shell
	PP/PMMA alloy	Propalloy-2(F)	Low shrinkage, high hardness	
	PP/PA alloy	Propalloy-3(F)	Easy spray, high rigidity	
HB Class Polypropylene	Normal	PP-91(E)	Homopolymerization	Household appliances, bathroom equipment, toy, packing container
		PP-92(E)	Copolymerization	
		PP-8(s)0(ee)	0.8mm HB	Hose, packing container
	Mineral-filled	PP-112(C)	High rigidity	Household appliances, battery shell
		PP-116(C)	Impact resistance	Household appliances
		AP-20(T)	Weather resistance	Air conditioner parts, outdoor plastic products
		HG-168A(C)	High gloss	Small electrical appliance shell, toy, audio equipment
		PP-TC15G(C)	Balanced comprehensive performance	Electric appliance shell
		PP-TC16G(C)		
		PP-35071	NSF certificated	Water purifier filter bottle
Flame Retarded Polypropylene	Non-PBDEs flame retarded	PP-R200	V-2, RTI:125℃	Household appliances, electric tools, battery shell
		LDP-3008	V-2, no blooming	Household appliances, electric tools
		PP-R009(f1)	V-0, f1	Household appliances, E&E, bathroom equipment
		PP-R003	V-0	Household appliances, E&E, battery shell
		LDP-5088	V-0&SC-0, QMTO2	Seasonal and Holiday Decorative products
		PP-R0 508	V-0, 5VA, RTI:120℃	Household appliances, E&E
	Halogen-free flame retarded	NHPP-FR	low-smoke, halogen-free, excellent weather resistance; V-0	Household appliances, E&E, stadium seating
Reinforced Polypropylene	Glass fiber reinforced	GFPP-(xx)	Glass fiber reinforced, UL2157 certificated	Washing machine, air conditioning,electric tools, vacuum cleaners, office furniture
		GFPP-(xx) SF	Glass fiber reinforced, NSF certificated	Water treatment equipment
	Glass fiber reinforced & flame retarded	GFPP-R(xx)	Glass fiber reinforced, V-0	Household appliances, E&E
	Long glass fiber reinforced	GFPP-L(xx)	High strength, high impact resistance	Household appliances, automobiles, office furniture
	Composite strengthening	PP-363(C)	High rigidity, low warpage	Air conditioning fan, audio equipment, electric tools, vacuum cleaners

Elastomer Products Series

Series	Category	Mark rules	Specifications	Application domain
Elastomer	TPE	FLEXBOND-100x	elastomer pp coating	electrical tool handle coating,auto component coating
		FLEXBOND-102x	elastomer ABS,PC coating	
		FLEXBOND-103x	elastomer PA6,PA66coating	
		KFLEX-2xx	general injection molding, PP coating, extrusion	auto component,household items,extrusion cable
		TPR-MBxx	TPR, high transparancy	toy,chuck
	TPV	MICROPRENE-10(xx)	natural coloror black,extrusion,blow molding	auto sealing system,dust cover,waterproof roll, seal of door and window,electric wire
		MICROPRENE-20(XX)	natural color or colored product, extrusion,blow molding	
		MICROPRENE-11(XX)	natural color or black injection molding	auto component,rail transit buffer component,household appliance rubber pad,daily items
		MICROPRENEN-21(XX)	natural color or colored injection molding	auto component,household appliance rubber pad,daily items
	TPEE	ET-51XX	natural color or colored products	auto component,rail transit buffer component,sports tool, daily items

PPE Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PPE	Flame-retardant FR	PPE-3311	Halogen-free flame-retardant, V-0 grade	
		PPE-3322	Halogen-free flame-retardant, V-1 grade	
		PPE-1311	Halogen-free flame-retardant, V-0 grade ,RTI	
		PPE-1311	Halogen-free flame-retardant, V-1 grade ,RTI	
	Flame-retardant FR	PPE-2211GFXX	XX-Glass fiber content	
	Reinfoced flame-retardant	PPE-6666GFXX	Halogen-free, V-1 grade , (XX-Glass fiber content)	Cooling fan, internal frame in OA machine
		PPE-6688GFXX	Halogen-free, V-0 grade , (XX indicates Glass fiber content)	
	Soft rubber	PPE-F70	HB grade , Wire rods, Using temperature: 80℃ or above	
		PPE-F891	VW-1 grade , Wire rods , Using temperature: 80℃ or above	
		PPE-F845	VW-1 grade , Wire rods , Using temperature: 105℃ or above	
		PPE-871	VW-1 grade , Plug material , Using temperature: 80 ℃ or above	
	FR, high-gloss	PPE-3311 HG	Halogen-free flame-retardant, High-light , Heat-resistant, Piano black(XX-heat deflection temperature)	TV housing, E&E equipment
	Non-FR, high-gloss	PPE-1111 HG	High-gloss , scratch resistant , Heat-resistant , Piano black(XX-heat deflection temperature)	

Series products of modified polyformaldehyde

Series	Category	Mark rules	Specifications	Application domain
POM	Standard grade	ULTRON-C025	High viscosity,High elongation at break, High impact-strength,Used for extrusion and injection molding	Gear,Bearing,Printer,extruded rod
		ULTRON-C090	Universal viscosity,Used for injection molding	Gear,Bearing,Printer,Car,Machinery
		ULTRON-C270	High fluidity,Rrapid prototyping	Gear,Bearing,Printer,Car,Machinery
	Low water absorption	ULTRON-C090 LO	Universal viscosity,Low formaldehyde emission,Low odor emission	Gear,Bearing,Printer, Car,keyboard
	Weather resistance	ULTRON-C025 UV	Good weather resistance,High viscosity, High elongation at break,High impact-strength,Low formaldehyde emission, Low odor emission,Used for	Gear,Bearing,Printer, Car,keyboard
		ULTRON-C090 UV	Good weather resistance, Universal viscosity,Low formaldehyde emission, Low odor emission,Used for injection molding	
		ULTRON-C270 UV	Good weather resistance,High fluidity,Low formaldehyde emission, Low odor emission, rapid prototyping	
	Toughening level	ULTRON-ITXX	high elongation at break、high impact-strength	Gear,Bearing,Printer, Car
	Reinforced	ULTRON-GTXX	Glass fiber reinforced,Hihg rigidity, Good dimensional stability	Gear,Bearing,Printer, Car,Machinery
	Fiame grade	ULTRON-GMXX	Mineral filled,High rigidity, Low warpage	Gear,Bearing,Printer, Car
	wear-resisting	ULTRON-AWEX	Low coefficient of friction, Good abrasive resistance	Gear,Bearing,Printer, Car,Machinery
		ULTRON-AWFX	PTFE addition,Low coefficient of friction,Excellent abrasive resistance	
		ULTRON-AWSX	Special lubricant, Low coefficient of friction	

Auto materials series products

Series	Category	Mark rules	Specifications	Application domain
Polyolefin Series	Bumpers and exterior	ABP - 2116	P/E , high toughness, spray- applied	Bumper
		ABP - 1010	PP+EPDM-TD10, weather resistance , high toughness, spray-applied	
		ABP-1029	PP+EPDM-TD10, strong weather resistance, low-temperature toughness, water based paint spray-applied	
		ABP - 1507	PP+EPDM-TD15, strong weather resistance, low-temperature toughness	
		ABP - 1520	PP+EPDM-TD15, high melt index, weather resistance, rigid-tough balance, spray-applied	
		ABP - 2018	PP+EPDM-TD20, high melt index, strong weather resistance, low-temperature toughness	
		ABP-2020	PP+EPDM-TD20, high melt index, rigid-tough balance, spray-applied	
		ABP-2020 UV	PP+EPDM-TD20, high melt index, rigid-tough balance, weather resistance	
		ABP-2030	PP+EPDM-TD20, ultra high melt index, rigid-tough balance, spray-applied	
		ABP-2040	PP+EPDM-TD20, ultra high melt index, high rigidity , high toughness, low shrinkage	Support, structure
		APO-3010	PP+EPDM-TD30, rigid-tough balance, low shrinkage, weather resistance	Grill
		APO-3012	PP+EPDM-TD30, rigid-tough balance, low shrinkage, weather resistance	
		APO-1030	P/E, high melt index, metallic luster, weather resistance	Spray-free exterior
	Dashboard	AIP-1609	PP+EPDM-TD15, rigid-tough balance, scratch resistance, low odor, low VOC, weather resistance	Door interior panel, pillar
		AIP-2618	PP+EPDM-TD20, high melt index, rigid-tough balance, scratch resistance, low gloss, weather resistance	Laser weakening integrated airbag dashboard
		AIP-1425LD	PP+EPDM-TD20, high melt index, rigid-tough balance, low gloss, weather resistance	Dashboard
		AIP-2112	PP+EPDM-TD20 , high toughness, scratch resistance, low gloss, weather resistance	Laser weakening integrated airbag dashboard
		AIP-2015	PP+EPDM-TD20, high rigidity, weather resistance, s low odor, low gloss	Dashboard, Door interior panel, pillar
		API-2040	PP+EPDM-TD20, high melt index, rigid-tough balance, low odor, low gloss, weather resistance	Thin-walled dashboard
		AIP-1925DF	PP+EPDM-TD25, rigid-tough balance, skin-applied, low odor, low VOC	Skin-covered dashboard
		AIP-2503	PP+EPDM-TD25, rigid-tough balance, scratch resistance, low odor, low VOC	Laser weakening integrated airbag dashboard

PEEK Products Series

Series	Category	Mark rules	Specifications	Application domain
PEEK		Vispeek 9002G	Medium viscosity	Mechanical parts , Coating
		Vispeek 9002P		
	Reinforced	Vispeek GR9302	30%GF，UL94 V-0	Mechanical parts
	Reinforced	Vispeek CF9302	30%CF，UL94 V-0	
	Reinforced	Vispeek FG9302	10%GF+10%PTFE+10% Graphite , UL94 V-0 , Self-lubricating	

Auto materials series products

Series	Category	Mark rules	Specifications	Application domain
Auto engineering plastics series	reinforced PA6	PA6-G30 HS	thermal aging resistance, hot oil resistance, good appearance, high weld strength	Intake manifold, cooling fan, fan bracket, accelerator pedal, front end components, etc.
		PA6-G35 HS	thermal aging resistance, hot oil resistance, good appearance, high weld strength	Intake manifold, valve chamber cover, oil filter, etc.
		PA6-G50 UV	high stiffness, weather aging resistance, good appearance	Rear view mirror bracket
	halogen-free flame retardant reinforced PA6	PA6-NPG30	halogen-free V0flame retardant, good electrical performance	High voltage connector, battery pack component
		PA6-NPG35		
	filled reinforced PA6	PA6-MG30 HS	thermal aging resistance, low warpage, good appearance	Connector, hood, door handle, cooling fan, etc.
		PA6-MG40 HS		
	filled PA6	PA6-M25	low warpage,good appearance,can spray color	hub cover
		PA6-M30		
		PA6-M35 HS	thermal aging resistance,low warpage,good appearance	engine cover
	reinforced PA66	PA66-G14 HS	high toughness,good dimensional stability	Fuse box, connector, patch panel, etc.
		PA66-G25 HS	thermal aging resistance, good appearance, good dimensional stability, good self-lubrication	Cooling fan, fan holder, bearing retainer, etc.
		PA66-G30 HS		
		PA66-G35 HS		
		PA66-G30 AH	high strength, thermal aging resistance, alcoholysis resistance	Radiator water tank, thermostat, oil bottom box, etc.
		PA66-G35 AH		
		PA66-G35 HP	good mechanical properties at high ambient temperature 180 ° C-210 ° C, while having good oil resistance, excellent fatigue resistance	Intercooler air chamber, turbocharged intake manifold, valve chamber cover, etc.
		PA66-G60 HM	high strength, low water absorbption	replace steel by plastics
	flame retardant reinforced PA66	PA66-RG251	V0flame retardant, high strength	plug and socket of charger gun
	halogen-free flame retardant reinforcedPA66	PA66-NPG15	halogen-free V0 flame retardant, good electrical performance	plug and socket of charger gun, high voltage connector
		PA66-NPG35		
	filled reinforced PA66	PA66-M28G10	thermal aging resistance, low warpage, good appearance, low linear expansion coefficient, good appearance	valve chamber cover,cooling fan
		PA66-MG40 HS		
	filled PA66	PA66-B250	low warpage, good appearance, can spray color	hub cover
		PA66-M10		
		PA66-M30		
	highlight black nylon	PA-C306 HG	highlight black, weather resistance,scratch resistance	Control panel, interior trim strip
	reinforced PBT	PBT-G15	high strength, high toughness, good dimensional stability	connector, window lifter shell
		PBT-G20		
		PBT-G30		
		PBT-G30 HR	hydrolysis resistance, high strength, high toughness, good dimensional stability	ignition coil, connector
		PBT-G50 UV	high stiffness, weather aging resistance	rear view mirror base
	flame retardant reinforced PBT	PBT-RG301	V0flame retardant, high strength	plug and socket of charger gun
	halogen-free flame retardant reinforced PBT	PBT-NPG30	halogen-free V0flame retardant, good electrical performance	plug and socket of charger gun, battery pack holder, high voltage connector
	filled PBT/PET	PBT-M10	high gloss, low haze, good appearance, no base coating	rear car light trim circle
		PBT-M20	high gloss, low haze, good appearance, thermal aging resistance	rear car light trim circle
	modified PBT	PBT-C800	high gloss, good appearance, low haze, no base coating, high flow, easy molding	rear car light trim circle, connector

PA66 Products Series

Series	Category	Mark rules	Specifications	Application domain
PA66	Enhance the level	PA6-Gxx	Glass fiber reinforced	

PC Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PC	Normal	JH820/JH810	modified PC, high weather resistance F1 certification	switch panel, electronic product shell, mobile phone shell, household appliance, auto, lighting
	Flame-retardant	JH830/JH860	halogen-free, flame-retardant, high tougness, high weather resistance F1 certification, high RTI	charging pile shell, charger and power adapter shell, OA, communication, lighting
		JH830T/JH860T	halogen-free flame-retardant, high temperature resistance, high transparancy, high RTI	electronic product shell, OA, household appliance, switch panel, lighting
		JH840	eco-friendly, flame-retardant, high temperature resistance, high tougness	fan heater shell, electronic product shell, lighting
		JH850	halogen-free, flame-retardant, high flow, high tougness, 5V flame-retardant	battery shell, electronic product , household appliance
		JH890	thin film flame-retardant	electrical and electronic product, lithium battery insulating film
	Light-reflecting	JH830-R310/R320	halogen-free flame-retardant, high heat resistance, high light reflection	backlight unit reflection board and reflection holder, shadow sheild and reflection board
		JH820-R310/R320	general, V-2 flame-retardant, high light reflection	backlight unit reflection board and reflection holder, shadow sheild and reflection board
	Reinforced	JH720-R2GXX(XX-GF content)	general reinforced, high stiffness	mobile phone, printer, household appliance interior holder and shell, electronic product holder, shell, electronic product holder
		JH720-R0GXX(XX-GF content)	flame-retardant reinforced PC, high stiffness	printer, electric switch, electronic product holder, electric meter shell, motor fan
PC/Polyester alloy	General	LONOY-1XXX	solvent resistance, PC/PBT alloy	household appliance, auto, electric tool, electronic product shell
		LONOY-2XXX	heat resistance, solvent resistancePC/PET alloy	household appliance, auto, kitchenware
	Reinforced	LONOY-3XXX	high strength, heat resistance, solvent resistance, low warpage	audio holder, auto, electric equipment components, household appliance
	flame-retardant	LONOY-R5XX	heat resistance, solvent resistance, flame-retardant PC/PET alloy	kitchen household appliance, medical product, electrical and electronic product shell
		LONOY-R6XX	solvent resistance, flame-retardant PC/PBT alloy	kitchen household appliance, transportation, outdoor junction box, electronic product shell
		LONOY-RGXXX	high strength, solvent resistance, low warpage, flame-retardant	NC machine tool, electic product, electrical and electronic product component
	Transparent	LONOY-7XXX	transparancy, high flow	household appliance, bathroom items, screen protector
PC/PMMA alloy	General	CAM-601/701/801	high gloss, high high toughness, anti-scratch, high impact resistance	mobile phone, OA, IT, lighting, household appliance, electronic product shell
	Transparent	CAM-601/701/801 TR	high transparancy, high gloss, high toughness, anti-scratch	mobile phone, OA, IT, lighting, household appliance, electronic product shell
PC/ABS alloy	General	MAC-101	high flow, cost-effective	household appliance interior holder and shell, electronic product shell
		MAC-201/301	high flow, high tougness	household appliance, auto, electronic product shell
		MAC-451/451PG	high flow, electroplating	household applianceshell, auto, electronic product shell
		MAC-501/601/701/751/851	high heat resistance, high tougness	smart home, household applianceshell, auto, electronic product shell
		MAC-701HF	high heat resistance, high impact resistance, high flow	mobile portable device shell, electronic product , household appliance shell
		MAC-751HF	high heat resistance, high impact resistance, high flow, high GWIT	switch panel, household appliance shell, patch board, electronic product shell
	Brominated flame-retardant	JH950-402/602/702	brominated flame-retardant, high heat resistance, high impact resistance	power supply component, patch board, electronic product shell
	Halogen-free, flame-retardant	JH960-6010	V-0 flame-retardant, high weather resistance	outdoor product, household applianceshell, electronic product shell
		JH960-6100	V-0 flame-retardant, high flow	household appliance with thin wall and big components, electronic product shell
		JH960-6111	V-0 flame-retardant, high impact resistance	electric tool, transportation, electronic product shell
		JH960-6200	0.8mm V-0 flame-retardant, 5VA, high impact resistance	power supply,communication tool, household appliance, electronic product shell
		JH960-6300	V-0 flame-retardant, excellent overall performance	TV, OA, IT, router, household applianceshell
		JH960-69XX	V-0 flame-retardant, recycled	OA, IT, router, household applianceshell, electronic product shell
		JH960-7XXX	V-0 flame-retardant, high GWIT	TV, heater, router, household appliance shell
		JH-R2G00	V-2 flame-retardant, high flow, cost-effective	electric component, household applianceshell, electronic product shell
		JH960-HT08	high heat resistance.HDT=90-100℃	electric component, lithium battery, router, medical product, electronic product shell
		JH960-HT10	high heat resistance.HDT=100-110℃	heater, air conditioner, electric control box, electronic product shell
		JH960-HT11	high heat resistance.HDT≥110℃	power supply component, lighting, household appliance, electronic product shell
	Reinforced	JH-R0GXX(XX-GFcontent)	flame-retardant	TV shell, backlight unit plastic frame, electronic product interior holder and shell
		JH-R2GXX(XX-GFcontent)	general	TV shell, backlight unit component, electronic product interior holder and shell
	Filled	JH960-6205/6210	halogen-free flame-retardant, high stiffness, high flow	laptop component, TV component, OA component
		JH960-6215/6220	halogen-free flame-retardant, high stiffness, dimensional stability, high flow	laptop component, TV component, OA component, bathroom
		JH-MXX	fill in PC/ABS, high flow, balance between stiffness and toughness, good appearance	large TV

PA Products Series

Series	Category	Mark rules	Specifications	Application domain
LFT-PA	Long glass fiber reinforced PA66	GFPA66-LXX		auto, toy , machinery
	Long glass fiber reinforced PA6	GFPA6-LXX		machinery
ModifiedPA6	General	PA6-C100	General	household appliance, furniture
		PA6-C111	Toughened	toy , sports equippment
	Reinforced	PA6-GXX	Glass fiber reinforced	rail transit, electric tool, furniture
	Flame retardant Reinforced	PA6-RGxx1	Brominated Flame retardant reinforced	battery holder
		PA6-RPGxx	Halogen-free Flame retardant reinforced	low-voltage apparatus, connector, thermostat, battery holder
		PA6-RNGXX		
		PA6-NPGXX		
	Flame retardant	PA6-RG001	Brominated Flame retardant	household appliance
		PA6-RNG00	Halogen-free Flame retardant	connector, electrical machine
		PA6-ROW	Halogen-free Flame retardant	connector
	Filled	PA6-Mxx	Filled	auto components, furniture
		PA6-MGXX	filled reinforced	auto, machinery
		PA6-MRxx	Brominated flame retardant filled	household appliance, low-voltage apparatus
		PA6-MNRXX	Halogen-free Flame retardant filled	low-voltage apparatus
	Alloy products	NALLOY	PA6/ABS alloy	toy , electric tool, small household appliance
ModifiedPA66	Normal	PA66-C200	General	electronic products,packages
		PA66-C112	Toughened	sports equippment, toy , children's product
	Reinforced	PA66-GXX	Glass fiber reinforced	rail transit, electronic product, construction
	Flame retardant reinforced	PA66-RGxx1	Brominated Flame retardant reinforced	electrical and electronic product, lighting
		PA66-R10GXX		
		PA66-R11GXX		
		PA66-R52GXX	Red phosphorus flame retardant reinforced	low-voltage apparatus, connector, thermostat, photovoltaic product, switch, battery holder
		PA66-RPGXX		
		PA66-R40GXX	Halogen-free, no red phosphorus, flame retardant reinforced	new energy auto connector, switch,plug, low-voltage apparatus
		PA66-NPGXX		
	Flame retardant	PA66-RG001	Brominated Flame retardant	connector, electrical machine, photovoltaic product, cable connector
		PA66-RNG00	Halogen-free Flame retardant	
		PA66-ROW		
	Filled	PA66-MXX	Filled	auto, furniture
		PA66-MGXX	Filled reinforced	auto, machinery
		PA66-MRxx	Brominated Flame retardant filled	electrical and electronic product

PPS Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PPS	Reinforced	PPS-GF30	Glass fiber reinforced,low chlorine content (XX- Glass fiber content)	E&E , water treatment
		PPS-GF40	Glass fiber reinforced (XX-Glass fiber content)	
	Reinforced	PPS-GM60	Glass fiber/ Mineral reinforced (XX –glass fiber content)	

HTPA Products Series

Series	Category	Mark rules	Specifications	Application domain
PA10T	Reinforced	Vicnyl 6130	30%GF,UL94 HB	connector,loudspeaker holder, electrical tool, kitchenware
		Vicnyl 62G50HR	50%GF,extremely low water absorption, hydrolysis resistance	plumbing components,replace steel by plastics
		Vicnyl 65GW66HS	66%(GF+MD),low warpage,heat stability	auto electrical parts like electrical motor cover
		Vicnyl 72G35HS	35%GF， excellent long-term coolant resistance, heat stability	engine components like thermostat
		Vicnyl 6150XF	50%GF,UL94 HB,high flow, low warpage	mobile phone frame,replace steel by plastics
	Flame retardant Reinforced	Vicnyl R6130NH	30%GF,halogen and red phosphorus-free flame retardant,UL94 V-0@0.2 mm	connector,auto electrical parts
		Vicnyl R6133	33%GF,brominated flame retardant, UL94 V-0@0.8 mm	connector,low voltage electrical product， relay
	Light reflection	Vicnyl L740C	40% mineral,high reflection,long-term light resistance,thermal aging	LED reflection holder
		Vicnyl L740HL	40% mineral,high brightness,long-term light resistance,thermal aging	
PA6T/66	Reinforced	Vicnyl 42G30HS	30%GF,heat stability	auto electrical parts,engine components
		Vicnyl 42G35HS	35%GF,heat stability	engine components
		Vicnyl 460	60%GF,UL94HB	loudspeaker holder
	Flame retardant Reinforced	Vicnyl R430NH	30%GF,halogen and red phosphorus-free flame retardant,UL94 V-0@0.25 mm	connector,auto electrical parts
		Vicnyl R430	30%GF,brominated Flame retardant, UL94 V-0@0.4 mm	connector,low voltage electrical product， relay
PA6T/6I	Reinforced	Vicnyl 535	35%GF,UL94HB	loudspeaker holder
		Vicnyl 550	50%GF,UL94HB	replace steel by plastics

PPSU/PESU Products Series

Series	Category	Mark rules	Specifications	Application domain
PPSU	Non-reinforced	Visulfon B002	Medium viscosity	Food and health components, Baby bottles etc. , Plumbing components
PESU	Non-reinforced	Visulfon C002P	Medium viscosity , powder	Coating
		Visulfon C002	Medium viscosity	Food and health components, Plumbing components
	Reinforced	Visulfon GRC302	30%GF， medium viscosity	electrical and electronic parts

LCP Products Series

Series	Category	Mark rules	Specifications	Application domain
LCP	General reinforced	Vicryst® R830	30%GF,UL94 V-0@0.1 mm， high strength	Bobbin, SATA, auto and communication connector
		Vicryst® R832	32%(GF+MD),UL94 V-0@0.1 mm,high flow,low warpage	slot for ultra-thin card ,ultra-thin fan
		Vicryst® R835	35%(GF+MD),UL94 V-0@0.1 mm,low warpage	PCI,FPC,communication connector
		Vicryst® R840	40%(GF+MD),UL94 V-0@0.1 mm,low warpage	main body of CPU Socket, connector like RJ, POWER,PCMCIA, HDMI
		Vicryst® R840 GL	40%(GF+MD),UL94 V-0@0.1 mm,high flow,low warpage	connector like FPC,B to B
		Vicryst® R845	45%(GF+MD),UL94 V-0@0.1 mm,low warpage	connector like Type-C,DDR,PCMCIA
		Vicryst® R845 TBNC	45%(GF+MD),UL94 V-0@0.1 mm,light color	connector like USB, LED,Type-C
		Vicryst® R850	50%(GF+MD),UL94 V-0@0.1 mm,high stiffness	connector like SD card,blended card slot
	High strength reinforced	Vicryst® R8030	30%GF,UL94 V-0@0.1 mm， low processing temperature, high strength	Bobbin, communication connector
	High heat resistance reinforced	Vicryst® R8240	40%GF,UL94 V-0@0.1 mm， high temperature resistance, high strength	temperature resistance components,bobbin
		Vicryst® R8332	32%(GF+MD),UL94 V-0@0.1 mm,ultra-high flow,low warpage， high temperature resistance	slot for ultra-thin card
		Vicryst® R8345	45%(GF+MD),UL94 V-0@0.1 mm,low warpage， high temperature resistance	main body of CPU Socket

NMT Products Series

Series	Category	Mark rules	Specifications	Application domain
PPS	Reinforced	Visplim G120	20% of GF,Can match colors,Excellent adhesive force with metal,Coefficient of linear thermal expansion is close to aluminum	phone box
PBT	Reinforced	Visplim G230	30% of GF， can match a variety of colors/ good weathering resistance/color changes smaller before or after anode	phone box
PPSU/PEEK	Reinforced	Visplim G420	20% of GF， excellent chemical resistance/ excellent weather resistance/ color remains the same before or after anode	phone box

LDS Products Series

Series	Category	Mark rules	Specifications	Application domain
PC	Non flame-retardant	Vismid 2100LDS	High toughness, high dimensional stability	Antenna
	flame-retardant	Vismid 2102LDS	UL94 V-0, halogen-free red phosphorus, high toughness, high dimensional stability	
PC/ABS	Non flame-retardant	Vismid 3200LDS	High toughness, high dimensional stability	
PA66+PA10T	Reinforced	Vismid 5370LDS	Low water absorption, good dimensional stability, suitable for SMT process	Antenna sensor
PA10T	Reinforce flame-retardant	Vismid 6364LDS	UL94 V-0, halogen-free red phosphorus, low water absorption, high dimensional stability, high temperature, suitable for SMT process	Antennas, sensors, electrical and electronic parts and components
LCP	Reinforced	Vismid 8485LDS	UL 94 V-0, high temperature, high mobility, high dimensional stability, suitable for rapid thin-wall molding and SMT process	Antennas, sensors, micro-electromechanical systems

PS Products Series

Series	Category	Mark rules	Specifications	Application domain
HIPS	DECA	FRHIPS-113	General, V-0 grade	
		FRHIPS-301	General, V-1 grade	
		FRHIPS-1162	General, V-2 grade	
	NON-DECA	FRHIPS-930	Weather resistant , 5VA grade	
		FRHIPS-960	General, V-0 grade	
		FRHIPS-980	Good appearance , 5VA grade	
		FRHIPS-351	General, V-1 grade	
		FTHIPS-8002	General, V-2 grade	
		FTHIPS-8002U	Weather resistant , V-2 grade	
	Halogen-free	FRHIPS-702	General, V-0 grade	
		FRHIPS-722	General, V-2 grade	
		FRHIPS-720	General , 5VA grade	
Modified PS	General	HIPS-5197	HBgrade	
	High gloss	HIPS-4418	HBgrade	

ABS Products Series

Series	Category	Mark rules	Specifications	Application domain
ABS	High flow	HF-606	V-0, High flow	
	Weather resistant	HF-630	V-0 General grade	
		HF-626	V-0 General grade	
	High heat resistant	FW-620	V-0 General grade	
		FW-620T	V-0 Medium heat resistance	
		FW-620HT	V-0 Highheat resistance	
	Halogen-free flame-retardant	NH-627	V-2 General grade	
Modified ABS	General	GAR-011	General	
		HP-126	High impact	
		GAR-322	High impact	
		GAR-332	Super high impact	
	Weather resistance	ABS-660	General	
	Heat-resistance	HR-527	General	
		HR-527A	Heat-resistant	
		HR-527B	High heat resistance	
		HR-527D	Super high heat resistance	
	Electroplate grade	HC-110	Electroplate	
	Transparent	TR-100	Transparent	
ABS/PBT alloy	General	JE2-R0	Flame-retardant	
		JE2-R2	General	
	Reinforced	JE2-ROGXX	Flame-retardant (XX - Glass fiber content)	
		JE2-R2GXX	General (XX - Glass fiber content)	
ABS/PA alloy	General	IC-501	General	
	High toughness	IC-701	High toughness	
High gloss ABS	High damage resistance	RS-300	Stiffness : 2H Stiffness	
	Semi-transparent, damage resistant	RS-400		
	General	RS-800		
Reinforced AS	Reinforced	GFAS-XX	Glass fiber reinforced (XX - Glass fiber content)	
Reinforced ABS	Reinforced	GFABS-XX	Glass fiber reinforced (XX - Glass fiber content)	
	Reinforce flame-retardant	GFABS-RXX	Reinforced flame-retardant (XX - Glass fiber content)	

AES Products Series

Series	Category	Mark rules	Specifications	Application domain
AES	General	AES-K100	General, High flow	
	High impact	AES-K200	High impact	
	Heat-resistant	AES-K300	High heat-resistance	

PBT Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PBT	General	PBT-C800	General, UL94HB, Chemicals resistant, High gloss	Switch shell, Auto parts, Keyboard, Optical fiber sheath
	Reinforced	PBT-Gxx	Glass fiber reinforced, High mechanical strength, High heat-resistance, High dimensional stability, Good electrical performance, UL94HB	Auto waving/Wiper components, Micro motor, Motor shell, etc.Wiper components, Micro motor, Motor shell, etc.
	Reinforced flame-retardant	PBT-RGxx	Reinforced Bromine flame-retardant, High heat-resistance, Goog electrical performance, Chemicals resistant, High mechanical strength	Electronic equipment fan, Capacitors shell, Relay, Coil former, Plug, Electrical coupler, Circuit breaker, Illuminace component, etc.
		PBT-RGxx1		
		PBT-RGxx2		
		PBT-NPGxx	Halogen-free flame-retardant, High heat-resistance, Goog electrical performance, Chemicals resistant, High flow, High mechanical strength, suitable fo...	Electronic equipment fan, Capacitors shell, Plug, Connector
		PBT-R312G××	Glass fiber reinforced, High mechanical strength, High heat-resistance, High dimensional stability, Good electrical performance, UL94HB	Electronic equipment fan, Capacitors shell, Relay, Coil former, Plug, Electrical coupler, Circuit breaker, Illuminace component, etc.
		PBT-R612G××	Glass fiber reinforced, High mechanical strength, High heat-resistance, High dimensional stability, Good electrical performance, UL94HB	Electronic equipment fan, Capacitors shell, Relay, Coil former, Plug, Electrical coupler, Circuit breaker, Illuminace component, etc.
		PBT-R912G××	Glass fiber reinforced, High mechanical strength, High heat-resistance, High dimensional stability, Good electrical performance, UL94HB	Electronic equipment fan, Capacitors shell, Relay, Coil former, Plug, Electrical coupler, Circuit breaker, Illuminace component, etc.
	Flame-retardnat	PBT-RG002	Bromine flame-retardant, Good electrical performance, Chemicals resistant, Smooth surface, High gloss, UL94V-0	Electric motor components, 、Capacitors shell, Circuit breaker, Coil former, Connecor, etc
		PBT-NPG00	Halogen-free flame-retardant, Good electrical performance, Chemicals resistant, Smooth surface, High gloss, UL94V-0	Electric motor components, 、Capacitors shell, Circuit breaker, Coil former, Connecor, etc.
	Filling grade	PBT-Txx	Filling, High dimensional stability, Low warp, High gloss, UL94HB	Household appliances shell, Motor, Plug, Connector, etc.
		PBT-RTxx	Bromine flame-retardant & Mineral filled, High dimensional stability, Low warp, High gloss, UL94V-0	
Modified PET	Reinforced	PET-Gxx	Glass fiber reinforced, High mechanical strength, High heat-resistance, Good electrical performance, UL94HB	Auto parts, Minimotor, Motor plastics, Building materials, etc.
	Reinforced flame-retardant	PET-RGxx	Reinforced Bromine flame-retardant, High mechanical strength, High heat-resistance, High dimensional stability, Good electrical performance, L94V0	Coil former , Mains switch, Socket, Household appliances, Illumination lighting etc.

LFT Products Series

Series	Category	Mark rules	Specifications	Application domain
LFT	Heat-resistant	GFPP - L40 HSBK	Good long-term thermal oxygen aging resistance, High strength	Front-end framework, Skylight framework, Engine protection plate, Engine cover
		GFPP - L50 HSBK		
		GFPP - L30 HSBK		
		GFPP - L20 HSBK		
	Environmental protection	GFPP - L40 HSBK	Low volatility	Auto IP backbone, Inner door panel, Back plate
		GFPP - L30 HSBK		
		GFPP - L20 HSBK		
	Detergent resistant	GFPP - L15 NC	Good detergent resistant	Washing machine drum
	High impact	GFPP - L30	High impact	Electric tools
		GFPP - L25		

Functional Masterbatch Series

Series	Category	Mark rules	Specifications	Application domain
Pearlescent masterbatch	MB-PF	MB-PF702	low precipitation, silk-like effect	BOPP
		MB-PF020	Organic pearlescent,high modulus	BOPP
Extinction masterbatch	MB-MF	MB-MF500	low precipitation	BOPP/CPP
	MB-AG	MB-AG001	Inorganic extinction	Artificial grass
Anti-blocking masterbatch	MB-AB	MB-AB052	Anti-blocking	BOPP/CPP/POF
Slip masterbatch	MB-SP	MB-SP075	Low friction coefficient	BOPP/POF
Anti-static masterbatch	MB-AS	MB-AS252	High concentration, rapid effect	BOPP
Stiffening masterbatch	MB-HM	MB-HM502	High stiffness	Casting synthetic paper
Flame-retardant masterbatch	MB-FR	MB-FR301	Flame-retardant	Medical protective clothes
Color masterbatch	MB-WT	MB-WT602	White color masterbatch, high-temperature resistance	BOPP/CPP
	CMB	CMB-*****	Color masterbatch	Extrusion, injection moulding
PPA masterbatch	MB-PPA	MB-PPA05	Reduce die buildup	Thin film, pipeline, fiber

Polyolefin Series Masterbatch Series

Series	Category	Mark rules	Specifications	Application domain
Modified polyolefin	Breathable film	AT-N02	Extremely soft	Baby diaper
		AT-N08	Compression point	Sanitary towel
		AT-N09	Positional cutting	Baby diaper
		AT-N70	High filling	Breathable film by blowing film
	Cable material	WDS	LSOH sheath material	Wire, cable
		WDF	LSOH insulated material	
		EC-30	Low-density cable material	
		EC-45	Medium-density cable material	
	Pipeline anticorrosion material	EC-65	High-density cable material	
		MDPE-GH	Renewable medium-density optical cable material	
		EPP	Polypropylene pipeline anti-corrosion coating	Oil and gas pipeline
		EPX	Pipeline anti-corrosion coating for high temperature	
		EPN	Pipeline anti-corrosion coating for normal temperature	
		EKL	Pipeline antiskid particles	
		PMA	Graft polypropylene adhesive	
		EMA	Graft polyethylene adhesive	
	Graft modification material	GS	Polyethylene adhesive	Steel-plastic composite material
	Waterproof material	WF-A01	EVA-type	Waterproof roll
		WF-C01	CPE-type	
		WF-T01	TPO-type	
	Hollow material	HDPE-GH	Renewable modified hollow material	Blow molding for daily chemical product packages

PVC Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PVC	Soft wire rubber	PVC-EX××××	Wires	
		PVC-CT××	Plugs	
		PVC-FT××	Window curtains	
		PVC-CL××	Imitation	
	Soft tubing lamp rubber	PVC-1018	Standard	
		PVC-KFW××	General	
		PVC-JT××	Joints	
	Other flexible glues	PVC-JC××	Extruding molding	
		PVC-ZS××	Injection molding	
	Toy flexible glues	PVC-NB××	Toys	
	Ebonite	PVC-EX××	Extruding molding	
		PVC-QZ××	Injection molding	
		PVC-UP××	Blow molding	
PVC/ABS alloy	PVC/ABS alloy	PVC-PM××	General	
			high strength	
			other classes	
		HPLOY-PM××	General	
			high strength	
			other classes	
		VSLOY-PM××	General	
			high strength	
			other classes	

ASA Products Series

Series	Category	Mark rules	Specifications	Application domain
ASA	General	ASA-W100	General	
	High impact	ASA-W200	High impact	
	Heat-resistance	ASA-W300	High heat-resistance	

PMMA Products Series

Series	Category	Mark rules	Specifications	Application domain
Modified PMMA	General	RS-500	Transparent	
	Toughening	RS-510	Transparent	