Jinsutong

Product Handbook 2026

Engineering Plastics & High-Performance Polymers · 5 Core Lines · 14 Specialty Grades · 93 Reference Grades

Table of Contents

FRONT MATTER

About Jinsutong 3 – 4

5 CORE LINES

EAA 5 – 6

EMAA 7 – 8

EVA 9 – 10

EVOH 11 – 12

PPS 13 – 14

14 SPECIALTY LINES

PA66 15

PPA 16

PA46 17

PA12 18

PVDF 19

PEI 20

LCP 21

PBT 22

PC 23

POM 24

PC+ABS 25

COC 26

ABS 27

PP 28

BACK MATTER

Applications Across Industries 29

Contact 30

About Jinsutong

Shanghai Jinsutong Plastics Co., Ltd. is a specialized supplier of engineering plastics and high-performance polymers, established to serve the evolving needs of global B2B customers across automotive, solar, 5G/AI electronics, food packaging, medical, and lithium-battery industries.

We focus on five core polymer product lines (EAA, EMAA, EVA, EVOH, PPS) and a curated portfolio of fourteen specialty engineering plastic grades. Our reference database includes 93 grades from 28 manufacturers including DuPont, BASF, SABIC, Solvay, Toray, Sumitomo, Celanese, LyondellBasell, Kuraray, Mitsubishi Chemical, Arkema, Covestro, and selected domestic Chinese suppliers (Shenma, Huafon, Wanhua, Zhejiang NHU, Sierbang).

Our role is to bridge global polymer supply with local Chinese demand. We do not manufacture polymers ourselves; we source across major producers, confirm grade availability, and provide technical liaison between suppliers and customers. All grade data in this handbook is sourced from public manufacturer catalogs and is intended as a market reference only.

Scope of Service

We specialize in cross-manufacturer, cross-category grade sourcing and procurement support for engineering plastics users. Our services include:

· Multi-manufacturer grade selection (DuPont, BASF, SABIC, Solvay, etc.)
· Domestic alternative assessment (Shenma, Huafon, Wanhua, Zhejiang NHU, Sierbang)
· Technical liaison with manufacturer support teams
· Sample supply (by project application)
· Long-term supply agreements (annual contracts)

We serve customers with serious project inquiries. For real-time quotation, sample availability, MOQ, and lead times, please contact our business manager directly.

> ⚠ **Market Reference Disclaimer**
> All grades and specifications listed in this handbook are sourced from public manufacturer catalogs and are intended as market reference only. Actual stock, pricing, MOQ, and lead times vary — please confirm with our business manager Mr. Mo Hailong (+86 138 1603 7020) before procurement planning.

EAA

EAA · Ethylene Acrylic Acid

Overview

Ethylene Acrylic Acid (EAA) copolymers provide high adhesion to metal, paper, and polar substrates. They are widely used in extrusion coating, multilayer tie layers, foil lamination, and flexible food packaging structures. Typical acrylic acid content ranges from 7% to 15%.

Typical Applications

Food packaging extrusion coating, aluminum foil lamination, multilayer adhesive tie layers, flexible packaging films.

EAA — Reference Grades (5)

Grade	Manufacturer	Key Properties	Typical Use
Nucrel® 0407	DuPont	~7% · 7	Food packaging extrusion coating
Nucrel® 0910	DuPont	~9% · 10	Adhesion tie layer, foil lamination
Nucrel® 1410	DuPont	~14% · 10	High-adhesion multilayer structures
Amplify™ EA 100	Dow	~15% · Flexible packaging tie layers	Flexible packaging tie layers
EVACO™ 405	SK Functional Polymer	~15% · Adhesive extrusion coating	Adhesive extrusion coating

EMAA

EMAA · Ethylene Methacrylic Acid

Overview

Ethylene Methacrylic Acid (EMAA) copolymers offer a balance of adhesion, toughness, and processability. They are used in films, extrusion coatings, and as precursors to ionomer resins. The acid functionality enables downstream neutralization chemistry.

Typical Applications

Flexible packaging films, extrusion coatings, ionomer precursor resins, adhesive layers.

EMAA — Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Nucrel® 0908	DuPont	~9% · 7	Flexible packaging films
Nucrel® 1214	DuPont	~12% · 14	Coatings, adhesive tie layers
Escor® 5200	ExxonMobil	Industrial coatings	Industrial coatings

EVA

EVA · Ethylene-Vinyl Acetate

Overview

Ethylene-Vinyl Acetate (EVA) copolymers span a wide range of flexibility, density, and crystallinity based on VA content (typically 12–33%). They are used in foam, footwear, hot-melt adhesives, and — critically — photovoltaic encapsulation films requiring VA content of 28–33%.

Typical Applications

Solar encapsulation films, foam and footwear, hot-melt adhesives, extrusion coating, general flexible packaging.

EVA — Reference Grades (8)

Grade	Manufacturer	Key Properties	Typical Use
Escorene™ Ultra LD 700	ExxonMobil	13% · 7	General-purpose packaging
Escorene™ Ultra UL 15019	ExxonMobil	19% · 150	Hot-melt adhesives
Elvax® 150	DuPont	32% · 43	Foam, footwear, adhesives
Elvax® 240	DuPont	28% · 38	Foam, extrusion coating
Lupolen® EVA 28400	LyondellBasell	Solar encapsulation films	Solar encapsulation films
EVA HP-2835	Hanwha Solutions	28% · 15	Solar encapsulation film
Lupolen® EVA 28200	LyondellBasell	28% · 20	Solar encapsulation film
EVA 光伏胶膜级	盛虹斯尔邦 (Sierbang)	28% · Solar encapsulation film	Solar encapsulation film

EVOH

EVOH · Ethylene Vinyl Alcohol

Overview

Ethylene Vinyl Alcohol (EVOH) is the workhorse high-barrier copolymer for multilayer food packaging, offering excellent oxygen barrier at low humidity. Ethylene content (32–44 mol%) is the key variable: higher ethylene content improves processability and humidity resistance, while lower ethylene content delivers higher barrier.

Typical Applications

Multilayer food packaging films, retort pouches, vacuum packaging, hot-fill containers, co-extrusion barrier layers.

EVOH — Reference Grades (4)

Grade	Manufacturer	Key Properties	Typical Use
Eval™ E105B	Kuraray	44 mol% · Extrusion pellet	Co-extrusion barrier layer
Eval™ F101B	Kuraray	32 mol% · Film grade	Multilayer film structures
Soarnol™ DC3203	Mitsubishi Chemical	32 mol% · Extrusion pellet	Food packaging barrier
Soarnol™ ET3803	Mitsubishi Chemical	38 mol% · Extrusion pellet	Retort, hot-fill packaging

PPS

PPS · Polyphenylene Sulfide

Overview

Polyphenylene Sulfide (PPS) is a semi-crystalline high-performance engineering polymer with outstanding heat resistance (continuous use 200–240°C), chemical resistance, and dimensional stability. Glass-fiber-reinforced grades are widely used in automotive, electronics, and industrial applications requiring long-term thermal endurance.

Typical Applications

Automotive under-hood components, electronic connectors, sensor housings, LED headlamp reflectors, industrial pump parts.

PPS — Reference Grades (10)

Grade	Manufacturer	Key Properties	Typical Use
Torelina® A900	Toray	Unfilled · High viscosity, high toughness	Coatings, structural parts
Torelina® A604	Toray	40% glass fiber · High stiffness, HDT 260°C+	Automotive, electronics
Ryton® R-4	Solvay	40% glass fiber · High heat resistance	Under-hood automotive
Ryton® R-7	Solvay	Glass/mineral fiber · Lower warpage	Precision electronic parts
PPS FZ-2100	DIC	Unfilled · General injection molding	Industrial components
NHU-PPS-G40	浙江新和成 (Zhejiang NHU)	40% glass fiber · Heat stabilized reinforced	Automotive, electronics
NHU-PPS-200	浙江新和成 (Zhejiang NHU)	Unfilled · General injection molding	Industrial components
Torelina® A504X90	Toray	40% glass fiber · High flow, thin-wall	Automotive connectors, sensors

(Showing 8 of 10 grades; see grades.html for the complete list)

PA66

PA66 · Polyamide 66

Overview

Polyamide 66 (PA66 / Nylon 66) is a high-strength, high-melting engineering nylon. Glass-fiber-reinforced grades (typically 15–43% GF) deliver high stiffness and heat resistance for automotive and industrial applications.

Reference Grades (8)

Grade	Manufacturer	Key Properties	Typical Use
Zytel® 101	DuPont	Unfilled · General purpose	Industrial parts, fasteners
Zytel® 70G33	DuPont	33% glass fiber · High stiffness	Automotive structural parts
Ultramid® A3K	BASF	Unfilled · Easy flow	Thin-wall injection molding
Ultramid® A3EG6	BASF	30% glass fiber · Heat stabilized	Under-hood automotive
EPR27	神马 (Shenma)	Unfilled · General injection molding	Industrial parts, fasteners
EPR32	神马 (Shenma)	30% glass fiber · High stiffness reinforced	Automotive structural parts
A22	华峰 (Huafon)	Unfilled · Easy flow injection grade	Consumer & industrial parts

(Showing 7 of 8 grades; see grades.html for the full list)

PPA

PPA · Polyphthalamide

Overview

Polyphthalamide (PPA) is a high-performance polyamide family bridging the gap between PA66 and more exotic materials. It offers higher heat resistance, lower moisture absorption, and excellent chemical resistance, with glass-fiber-reinforced grades for demanding automotive and electronics applications.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Amodel® A-1133	Solvay	33% glass fiber · High heat, low moisture	Automotive powertrain
Amodel® A-1240	Solvay	40% glass fiber · Ultra-high stiffness	Structural automotive parts
Zytel® HTN 51G35HSL	DuPont	35% glass fiber · Heat stabilized	Electronics, automotive

PA46

PA46 · Polyamide 46

Overview

Polyamide 46 (PA46 / Stanyl) is an ultra-high-temperature nylon with HDT up to 290°C and excellent wear resistance. It is used in demanding applications where standard PA66 falls short on thermal endurance.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Stanyl® TW300	DSM	Unfilled · HDT 290°C+	High-temp connectors
Stanyl® TW341	DSM	30% glass fiber · High stiffness + heat	Automotive gears, bearings
Stanyl® TW441	DSM	40% glass fiber · Maximum rigidity	Structural high-temp parts

PA12

PA12 · Polyamide 12

Overview

Polyamide 12 (PA12) is a low-moisture-absorption nylon with excellent chemical resistance and dimensional stability. It is widely used in fuel lines, flexible tubing, and 3D printing applications.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Grilamid® L 20	EMS-Grivory	Unfilled · Low moisture absorption	Fuel lines, pneumatic tubing
Grilamid® L 25	EMS-Grivory	Glass fiber · Reinforced stiffness	Automotive connectors
Vestamid® L 1600	Evonik	Unfilled · High viscosity	Extrusion, 3D printing

PVDF

PVDF · Polyvinylidene Fluoride

Overview

Polyvinylidene Fluoride (PVDF) is a high-purity fluoropolymer with excellent chemical resistance, weatherability, and electrical properties. Battery-grade variants (HSV, LBG) are used as binders in lithium-ion battery cathodes.

Reference Grades (7)

Grade	Manufacturer	Key Properties	Typical Use
Kynar® 720	Arkema	Pellet · General purpose	Chemical piping, coatings
Kynar® 740	Arkema	Pellet · High purity	Semiconductor, lithium battery
Solef® 1010	Solvay	Pellet · Injection molding	Valves, fittings
Solef® 6010	Solvay	Pellet · High viscosity	Extrusion, membrane
Kynar® HSV 900	Arkema	Pellet · Battery binder grade	Lithium-ion battery binder
Kynar Flex® LBG	Arkema	Pellet · High flexibility	Pouch cell binder, flexible coating
Solef® 21510	Solvay	Pellet · Battery binder grade	Lithium-ion battery binder

PEI

PEI · Polyetherimide

Overview

Polyetherimide (PEI / Ultem) is an amorphous high-performance polymer with HDT 200°C, inherent flame retardance, and excellent hydrolytic stability. It is used in medical, aerospace, and electronic applications requiring repeated sterilization or high heat.

Reference Grades (5)

Grade	Manufacturer	Key Properties	Typical Use
Ultem® 1000	SABIC	Unfilled · HDT 200°C, transparent amber	Medical devices, aerospace
Ultem® 2300	SABIC	30% glass fiber · High stiffness + heat	Electrical connectors
Ultem® HU1004	SABIC	Unfilled · High heat grade	Under-hood automotive
Ultem® 2200	SABIC	20% glass fiber · High stiffness reinforced	Electronic connectors
Ultem® 1010	SABIC	Unfilled · FDA food contact	Food contact, medical

LCP

LCP · Liquid Crystal Polymer

Overview

Liquid Crystal Polymer (LCP) is a high-flow, high-heat polymer family with very low dielectric loss at high frequencies. It is the material of choice for ultra-thin-wall SMT connectors, mmWave antenna substrates, and AI server components requiring Dk <3.0 and Df <0.005 at 10 GHz.

Reference Grades (7)

Grade	Manufacturer	Key Properties	Typical Use
Vectra® A130	Ticona	30% glass fiber · High flow, low warp	SMT connectors
Vectra® E130i	Ticona	30% glass fiber · High heat (HDT 280°C+)	Lead-free soldering parts
Sumikasuper® E5008	Sumitomo Chemical	Filler · High flow, low viscosity	Micro-connectors
Vectra® LCP E471i	Polyplastics	30% glass fiber · High heat resistance	5G SMT connectors
Vectra® LCP T130	Polyplastics	30% glass fiber · High flow, thin-wall	Micro-miniature connectors
Zenite® 6330	Celanese	30% glass fiber · Low Dk/Df, high frequency	5G mmWave antenna
Sumikasuper® E6006	Sumitomo Chemical	Filler · Ultra high flow	Miniature connectors, SMD

PBT

PBT · Polybutylene Terephthalate

Overview

Polybutylene Terephthalate (PBT) is a crystalline polyester with excellent electrical properties, dimensional stability, and chemical resistance. Glass-fiber-reinforced grades are used in automotive sensors, lighting, and electrical connectors.

Reference Grades (5)

Grade	Manufacturer	Key Properties	Typical Use
Valox® 325	SABIC	Unfilled · General purpose	Electrical housings
Valox® 420	SABIC	30% glass fiber · High stiffness	Automotive sensors
Ultradur® B 4520	BASF	Unfilled · Easy flow	Connectors, switches
Valox® 553	SABIC	30% glass fiber · Heat stabilized reinforced	Automotive sensors, lighting
Ultradur® B 4300 G4	BASF	20% glass fiber · Flame retardant	Electrical connectors, switches

PC

PC · Polycarbonate

Overview

Polycarbonate (PC) is a transparent amorphous engineering polymer with high impact strength, optical clarity, and dimensional stability. FDA-compliant grades serve food-contact and medical applications; flame-retardant grades serve IT equipment.

Reference Grades (5)

Grade	Manufacturer	Key Properties	Typical Use
Lexan® 141	SABIC	Pellet · General purpose, transparent	Optical lenses, covers
Lexan® 143R	SABIC	Pellet · High flow	Thin-wall consumer parts
Makrolon® 2458	Covestro	Pellet · Medium viscosity	Electrical enclosures
Lexan® 3412R	SABIC	Pellet · FDA food contact	Food contact applications
Makrolon® 6555	Covestro	Pellet · Flame retardant	Electrical enclosures, IT equipment

POM

POM · Polyoxymethylene (Acetal)

Overview

Polyoxymethylene (POM / Acetal) is a high-stiffness, low-friction engineering polymer widely used in precision gears, bearings, and snap-fit assemblies. Both homopolymer and copolymer variants are available.

Reference Grades (4)

Grade	Manufacturer	Key Properties	Typical Use
Delrin® 100	DuPont	Homopolymer · High strength, general	Gears, bearings
Delrin® 500	DuPont	Homopolymer · High viscosity, tough	Thick-wall parts
Ultraform® W 2320	BASF	Copolymer · Easy flow	Precision injection parts
Iupital® F20	Mitsubishi Engineering Plastics	Copolymer · Standard grade	Industrial components

PC+ABS

PC+ABS · Polycarbonate/ABS Alloy

Overview

Polycarbonate/ABS alloys combine PC's impact strength and heat resistance with ABS's processability and surface finish. They are widely used in automotive interior, electronics enclosures, and office equipment.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Cycoloy® C2950	SABIC	High heat resistance · Automotive interior parts	Automotive interior parts
Cycoloy® C6600	SABIC	High impact · Electronics enclosures	Electronics enclosures
Bayblend® T65 PG	Covestro	Easy processing · Office equipment housings	Office equipment housings

COC

COC · Cyclic Olefin Copolymer

Overview

Cyclic Olefin Copolymer (COC) is a transparent amorphous polymer with high Tg (130–180°C), excellent moisture barrier, and low extractables. It is widely used in medical prefillable syringes as a glass substitute and in optical applications.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
TOPAS® 6013	TOPAS Advanced Polymers	High Tg (130°C), clear · Medical vials, optical films	Medical vials, optical films
TOPAS® 8007	TOPAS Advanced Polymers	Very high Tg (180°C) · High-heat transparent parts	High-heat transparent parts
Zeonex® 480R	Zeon Corporation	Optical grade, low birefringence · Camera lenses, displays	Camera lenses, displays

ABS

ABS · Acrylonitrile Butadiene Styrene

Overview

Acrylonitrile Butadiene Styrene (ABS) is an impact-resistant amorphous polymer with high gloss and easy processability. It is widely used in consumer electronics, toys, and appliance housings.

Reference Grades (3)

Grade	Manufacturer	Key Properties	Typical Use
Cycolac® MG38	SABIC	High impact · Consumer electronics	Consumer electronics
Cycolac® MG47	SABIC	High gloss, easy flow · Appliance housings	Appliance housings
Polylac® PA-757	Chi Mei	Standard injection grade · Toys, consumer goods	Toys, consumer goods

PP

PP · Polypropylene

Overview

Polypropylene (PP) is a versatile polyolefin with high stiffness, good chemical resistance, and excellent processability. Homopolymer, random copolymer, and impact copolymer grades cover packaging, automotive, and consumer applications.

Reference Grades (4)

Grade	Manufacturer	Key Properties	Typical Use
Moplen® HP500N	LyondellBasell	Homopolymer · High stiffness	Packaging, injection molding
Achieve™ PP6936G1	ExxonMobil	Homopolymer · High flow	Thin-wall packaging
PP 576P	SABIC	Homopolymer · General purpose	Consumer products
Braskem PP H301	Braskem	Homopolymer · High melt strength	Extrusion thermoforming

Applications Across Industries

Our polymer portfolio supports six major industry verticals. Each application demands specific property combinations — heat resistance, barrier performance, high-frequency dielectric behaviour, mechanical strength, or chemical resistance — and our grade catalog is structured to help engineers identify candidate materials quickly.

Solar / Photovoltaic

EVA encapsulation film for PV modules; backsheet tie layers; junction box potting compounds.

Automotive

Under-hood connectors, turbocharger air ducts, sensor housings, LED headlamp reflectors, fuel system components.

5G / AI Electronics

SMT connectors, mmWave antenna substrates, AI server sockets, optical transceiver components.

Food Packaging

High-barrier multilayer films (EVOH/EAA/EMAA), vacuum packaging, retort pouches, hot-fill containers.

Medical Devices

COC prefillable syringes, PEI sterilization trays, PVDF high-purity tubing.

Lithium Battery

PVDF binders for cathodes, PPS cell housings, separator coatings.

Contact

For real-time grade availability, pricing, MOQ, and lead times, please contact our business manager directly:

Business ManagerMr. Mo Hailong

Mobile	+86 138 1603 7020
Email	13816037020@139.com
QQ	2867872247
Address	No. 1, Building 1, No. 5601 Yanqian Road, Fengxian District, Shanghai, China

Company: Shanghai Jinsutong Plastics Co., Ltd.
Unified Social Credit Code: 91310120MABNATH50Y

© 2026 Shanghai Jinsutong Plastics Co., Ltd. · All rights reserved. Data sourced from public manufacturer catalogs. For real-time quotation, contact Mr. Mo Hailong (莫海龙) at +86 138 1603 7020.