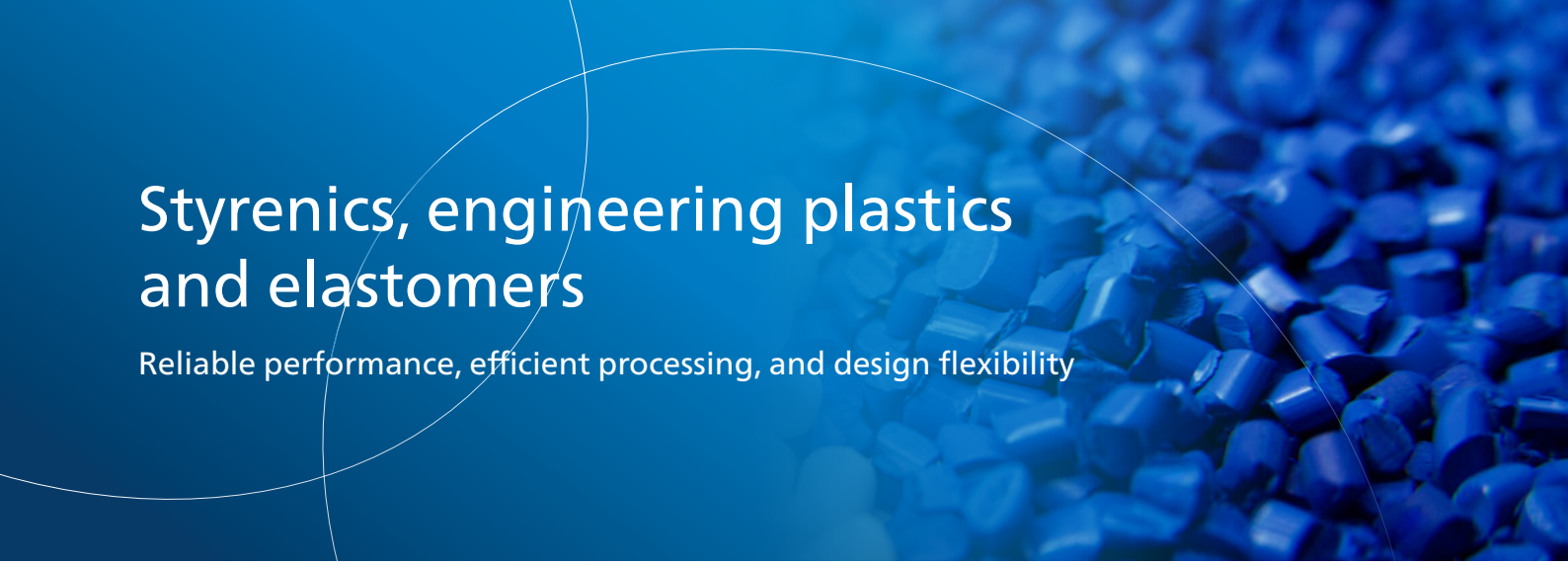
Product Focus

Styrenics, engineering plastics and elastomers

Reliable performance, efficient processing, and design flexibility

CHIMEI
a step up

Omya Performance
Polymer Distribution



Styrenics, engineering plastics and elastomers

Reliable performance, efficient processing, and design flexibility

A comprehensive CHIMEI portfolio

CHIMEI is a global leader in engineering plastics, supplying material solutions for automotive, medical and healthcare, consumer goods, electrical and electronics, packaging, construction, optical and lighting, tire and rubber, footwear and industrial applications.

Omya Performance Polymer Distribution provides access to **a broad portfolio of styrenics, engineering plastics, transparent polymers, elastomers, synthetic rubbers, and sustainable material solutions.** Customers benefit from local commercial and technical expertise, application-focused material selection support, and reliable regional logistics. Through close collaboration with CHIMEI's technical teams, we help customers identify suitable materials for demanding applications and support projects from concept through production.

Portfolio overview

Material family		Brand	Core positioning
ABS	Acrylonitrile butadiene styrene	**POLYLAC®**	Impact strength, rigidity and surface quality
MABS	Methyl methacrylate acrylonitrile butadiene styrene	**POLYLAC®**	Clarity with ABS toughness and processability
SAN	Styrene acrylonitrile	**KIBISAN®**	Rigidity, clarity and chemical resistance
ASA	Acrylonitrile styrene acrylate	**KIBILAC®**	UV resistance, weatherability and color stability
PC	Polycarbonate	**WONDERLITE®**	Impact strength, optical clarity and thermal resistance
PC/ABS	Polycarbonate / acrylonitrile butadiene styrene	**WONDERLOY®**	Balanced heat performance, toughness and flow
PMMA	Polymethyl methacrylate	**ACRYREX®**	Transparency, gloss, scratch- and weather resistance
SMMA	Styrene methyl methacrylate	**ACRYSTEX®**	Optical clarity, good flow and dimensional stability
PS	Polystyrene	**POLYREX®**	Rigidity, surface quality and efficient processing
SBC	Styrene butadiene block copolymer	**KIBITON® Q**	Transparency, toughness and flexibility
TPE	Thermoplastic elastomer	**KIBITON®**	Rubber-like flexibility with thermoplastic processing
HBR / LBR / SSBR	High-cis butadiene rubber / low-cis butadiene rubber / solution styrene butadiene rubber	**KIBIPOL®**	Synthetic rubber solutions for dynamic performance
PCR / Bio-based	Post-consumer recycled and bio-based materials	**Ecologue®**	Recycled (mechanical and chemical) and bio-based ABS, MABS, PC, PC/ABS, and SMMA solutions

Styrenics and engineering plastics

POLYLAC® acrylonitrile butadiene styrene (ABS)

A well-balanced engineering thermoplastic combining **impact strength, rigidity and high-quality surface finish.** The portfolio includes general-purpose, high-impact and flame-retardant grades for electronics housings, appliances, tools and consumer products where consistent processing and dimensional stability are essential.

POLYLAC® methyl methacrylate acrylonitrile butadiene styrene (MABS)

Combines **transparency and surface gloss with the toughness and processing advantages** associated with ABS. Suitable for household appliances, consumer products, transparent housings, cosmetic and personal care components, and applications requiring clarity, durability and a high-quality finish.

KIBISAN® styrene acrylonitrile (SAN)

Provides **rigidity, clarity and chemical resistance** for applications requiring transparency and structural performance. Common uses include household products, consumer goods, cosmetic packaging, food containers and kitchenware where optical quality and dimensional stability are important.

KIBILAC® acrylonitrile styrene acrylate (ASA)

Engineered for **outdoor durability, with resistance to UV exposure, weathering and colour fading.** Suitable for automotive exterior components, construction products, outdoor equipment and durable consumer goods where appearance and performance must be maintained over time.

WONDERLITE® polycarbonate (PC)

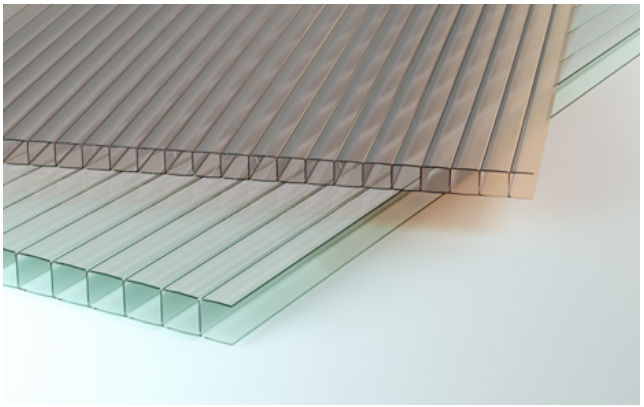
Delivers **high impact strength, optical clarity and thermal resistance** for demanding applications. Typical uses include lighting, electrical and electronic components, medical devices, safety equipment and transparent housings where durability and visual quality are critical.

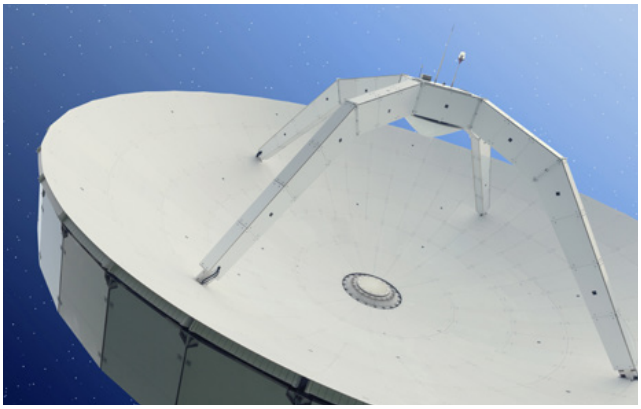
WONDERLOY® polycarbonate/acrylonitrile butadiene styrene (PC/ABS)

Combines the **toughness and heat resistance of polycarbonate with the processability and surface quality of ABS.** Offers strong impact performance, good flow and dimensional stability for mobility components, electronics housings, IT equipment and technical enclosures.

POLYREX® polystyrene (PS)

Provides **rigidity, dimensional stability, surface quality and efficient processing** for high-volume applications. Suitable for packaging, household products, consumer goods, stationery, electrical and electronic components and other cost-conscious applications requiring reliable quality.





Typical properties (representative values)

Property	ABS	SAN	ASA	PC	PC/ABS	PS
Density (g/cm^3)	1.03-1.07	1.07-1.10	1.05-1.08	1.20	1.10-1.20	1.04-1.06
Tensile strength (MPa)	40-50	60-80	45-55	60-70	50-65	35-60
Impact resistance	High	Medium	High	Very high	High	Low-medium
HDT (°C)	80-100	90-110	90-110	120-140	95-120	70-100
Transparency	Opaque / clear MABS	Transparent	Opaque	Transparent	Opaque	Transparent/opaque

Processing capability

CHIMEI engineering plastics are designed for efficient production across standard thermoplastic processing technologies, including injection molding, extrusion, and thermoforming (selected grades). Consistent melt behavior, dimensional stability, and processing reliability support repeatable manufacturing, high productivity, and excellent part quality.

Processing method	Typical materials
Injection molding	ABS, SAN, ASA, PC, PC/ABS, PMMA, SMMA
Extrusion	ABS, ASA, PC, PMMA
Thermoforming	PS, PMMA, selected styrenics

Transparent polymers and elastomer solutions

ACRYREX® polymethyl methacrylate (PMMA)

Offers outstanding **transparency, surface gloss and weather resistance** for long-term optical and aesthetic performance. Excellent light transmission, UV stability and surface hardness support automotive lighting, displays, signage, lighting components, consumer products and architectural applications.

ACRYSTEX® styrene methyl methacrylate (SMMA)

Combines **excellent optical clarity with good flow and dimensional stability.** Its high light transmission and low haze make it suitable for lighting, optical, household, cosmetic packaging and consumer applications requiring visual quality, rigidity and reliable molding performance.

KIBITON® Q styrene butadiene block copolymer (SBC)

A transparent styrenic material combining **optical clarity with toughness, flexibility and easy processing.** Suitable for consumer goods, household products, packaging, toys and transparent components that require greater durability than conventional rigid styrenics.

KIBITON® thermoplastic elastomers (TPE)

Provides **rubber-like flexibility with thermoplastic processing efficiency,** without vulcanization. Supports soft-touch and durable applications including grips, seals, consumer goods, hand tools, sporting equipment, industrial components and over-molded parts.

Typical properties (representative values)

Property	PMMA	SMMA	SBC
Density (g/cm^3)	~1.18	~1.08	~0.95
Transparency	Excellent	Excellent	Excellent
Surface gloss	Excellent	Excellent	High
Impact resistance	Medium	Medium-high	High
UV stability	Excellent	Good	Moderate
Processability	Good	Excellent	Excellent

Processing capability

Transparent materials from CHIMEI are engineered to deliver high optical quality while maintaining efficient processing. Good flow characteristics, low haze, and dimensional stability help manufacturers produce complex transparent parts with excellent surface finish and appearance.

KIBIPOL® synthetic rubber portfolio

KIBIPOL® high-cis butadiene rubber (HBR)

Provides **resilience, abrasion resistance, low heat build-up and dynamic performance** for tires, footwear, industrial rubber goods and applications requiring wear performance and long service life.

KIBIPOL® low-cis butadiene rubber (LBR)

Offers a **versatile balance of flexibility, processing performance and compatibility** in rubber formulations. Suitable for footwear, rubber modification, industrial products and compounded rubber systems requiring consistent processing and tailored mechanical performance.

KIBIPOL® solution styrene-butadiene rubber (SSBR)

Developed for applications requiring an **advanced balance of mechanical and dynamic performance.** Particularly suited to high-performance tire compounds, while also supporting footwear and specialist rubber applications requiring durability, abrasion resistance and controlled performance.

Typical properties (representative values)

Property	TPE	HBR	LBR	SSBR
Flexibility	Excellent	Excellent	Excellent	Excellent
Abrasion resistance	High	Very high	High	Very high
Elastic recovery	High	Very high	High	High
Dynamic performance	High	Very high	Good	Excellent
Processing	Thermoplastic	Rubber processing	Rubber processing	Rubber processing

Processing capability

CHIMEI elastomer and synthetic rubber solutions support a range of rubber and flexible-part manufacturing processes. Depending on material type, products may be processed through standard thermoplastic methods or conventional rubber compounding technologies to achieve targeted mechanical and dynamic performance.

Processing method	Typical materials
Injection molding	KIBITON® TPE
Extrusion	KIBITON® TPE
Rubber compounding	KIBIPOL® HBR, LBR, SSBR
Compression/transfer molding	KIBIPOL® HBR, LBR, SSBR

Ecologue® PCR and bio-based materials

Enable manufacturers to **integrate recycled or bio-based content while maintaining consistent quality, processing stability and application performance.** The portfolio supports circular material strategies in electronics, appliances, mobility, consumer goods, office equipment and industrial applications while helping reduce reliance on virgin raw materials.

Sustainability pathways

- Recycled and bio-based material options: Support the use of mechanically and chemically recycled, bio-based and carbon-reduced content in selected ABS, MABS, PC,PC/ABS, and SMMA applications.
- Efficient material utilization: Stable processing and repeatable molding performance can help reduce variability, scrap and avoidable material waste.
- Durability and longer service life: Impact resistance, weatherability and mechanical stability support products designed for sustained use.
- Thermoplastic processing: Easy processing thermoplastic materials can support circular product design approaches where technically and commercially appropriate.

Applications across the CHIMEI portfolio

CHIMEI materials support performance-critical applications across a wide range of industries, combining reliable performance, processing efficiency, durability, aesthetics, transparency, flexibility, and sustainability.

Industry	Typical applications
Electrical and electronics	Housings, connectors, displays, transparent components and flame-retardant parts
Consumer goods and appliances	Household appliances, personal care products, toys and durable consumer products
Medical and healthcare	Medical devices, diagnostic equipment and transparent housings
Mobility and transportation	Interior and exterior components, displays, lighting and technical parts
Packaging	Food packaging, cosmetic packaging and transparent containers
Optical and lighting	Lenses, diffusers, displays, signage and lighting systems
Construction and outdoor	Exterior components, profiles, housings and weatherable applications
Tires, footwear and sporting Goods	Tire compounds, footwear components, sporting goods and flexible products
Industrial components	Technical parts, housings, seals and protective components

Why work with Omya Performance Polymer Distribution?

Customers sourcing CHIMEI materials through Omya Performance Polymer Distribution benefit from:

- A broad CHIMEI portfolio spanning styrenics, engineering plastics, transparent polymers, elastomers, synthetic rubbers and sustainable solutions
- Local commercial, technical and application support
- Material selection and grade optimization aligned with performance, processing and regulatory requirements
- Processing guidance and troubleshooting support
- Reliable regional logistics and multi-country coordination, subject to product availability
- Close collaboration with CHIMEI technical teams from concept through production

Let's develop your next application together

CHIMEI's engineering plastics portfolio enables manufacturers to achieve reliable performance, efficient processing, and scalable innovation across a wide range of applications.

Whether you are optimizing an existing material selection or developing a new application, Omya Performance Polymer Distribution works closely with you to identify the right solution – supporting you from initial concept through to full-scale production.

Contact Omya Performance Polymer Distribution

To discuss your application, material requirements, or grade selection, contact your local Omya Performance Polymer Distribution representative or visit: www.omya.com

omya.com

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