

Product Focus

Acrylic (PMMA)

Premium acrylic technologies



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Premium acrylic technologies delivering exceptional clarity, weatherability, and design freedom where performance and aesthetics matter

Lucite International is a **global leader in acrylic technologies**. It is renowned for its innovation in advanced PMMA materials which serve a diverse range of industries, including automotive and mobility, construction, consumer goods, signage, lighting, and consumer electronics.

Omya Performance Polymer Distribution partners with Lucite International to supply high-performance acrylic, polymethyl methacrylate (PMMA), materials to customers across Europe. Combining a comprehensive product portfolio with strong market knowledge and technical support, we help manufacturers identify the right acrylic material solutions for demanding applications.

Working with Omya Performance Polymer Distribution gives customers access to local commercial and technical expertise, responsive customer service, dependable logistics, and a reliable supply network throughout the region. Our close relationship with Lucite International also enables effective collaboration on application development and technical requirements.

Portfolio overview

Material family	Brand	Core positioning
PMMA Polymethyl methacrylate	Diakon®	Exceptional optical clarity, weatherability, and surface durability with excellent processing performance
	Elvakon®	Specifically developed for co-extrusion applications with enhanced UV resistance and matte surface options
	Acrypet™	Exceptional optical clarity, weather resistance, and surface hardness

Acrylic (PMMA)

Diakon® polymethyl methacrylate (PMMA)

Diakon® PMMA combines **exceptional optical clarity, weatherability, and surface durability with excellent processing performance**. Its outstanding light transmission and long-term resistance to UV exposure make it a preferred choice for applications such as automotive lighting, signage, displays, lighting systems, consumer goods, and architectural components. The Diakon® portfolio also includes **Diakon® Light Plus** - light diffusion acrylic technology for backlit LEDs. The portfolio also offers flexibility in material modification / compounding, enabling properties and aesthetics to be tailored to specific application and design requirements.

it an ideal choice for applications requiring long-term transparency and aesthetic appeal. Its excellent light transmission and durability support a wide range of uses, including lighting components, signage, displays, automotive lenses, and consumer products. Acrypet™ is intended for larger volume, standard grade supply.

PMMA bead technologies

Lucite International also offers PMMA bead production with average particle sizes (APS) from 50 - 600 µm, supporting specialist applications including varnishes, paints, coatings, and other formulated systems.

Elvakon® polymethyl methacrylate (PMMA)

Elvakon® PMMA is **specifically developed for co-extrusion applications**, enabling manufacturers to combine the surface performance of PMMA with the cost and processing benefits of substrates such as ABS and PVC. Offering enhanced UV resistance compared with Diakon® and matte surface options, Elvakon® provides excellent weatherability, color retention, and surface durability, making it ideal for capstock and protective layer applications in building products, transportation, outdoor equipment, lighting, and architectural profiles.

Acrypet™ polymethyl methacrylate (PMMA)

Acrypet™ PMMA delivers **exceptional optical clarity, weather resistance, and surface hardness**, making



Typical properties at a glance

Property	Diakon®	Elvakon®	Acrypet™
Density (g/cm³)	1.14-1.18	1.13-1.16	~1,19
Tensile strength (MPa)	39-85	29-50	~76*
Impact options	Standard to highly impact-modified	Impact-resistant grades available	Standard to high-impact grades
HDT (°C)	81-102	60-98	84-108
Light transmission (clear grades)	Up to 92%	Up to 90%	Up to 93%
MFR (g/10 min)	Grade dependent	~2.3–3.9**	0.8–20
Weatherability / UV resistance	Excellent	Superior	Excellent
Surface quality	High-gloss / optical	High-quality / matte surface options	High-gloss / optical

* Representative value for a general-purpose clear grade; properties vary across the ACRYPET™ portfolio.

** Based on representative published Elvakon® grades.

Values shown are typical properties or ranges across selected grades and are provided for guidance and comparison purposes only. Properties vary according to grade, color, modification, and test method. Please refer to individual technical data sheets for grade-specific information.

Processing capability

Lucite International PMMA technologies are engineered for efficient processing using established thermoplastic manufacturing methods, including injection molding and extrusion. With grades tailored to different processing and end-use requirements, **Diakon®**, **Elvakon®**, and **Acrypet® PMMA** offer excellent flow characteristics, surface reproduction, dimensional stability, and processing consistency, supporting efficient production and high-quality finished components.



Where Lucite International PMMA technologies perform

Lucite International’s PMMA technologies combine exceptional optical clarity, durability, weather resistance, surface quality, and design flexibility, enabling manufacturers to meet a wide range of aesthetic, functional, and performance requirements.

With versatile PMMA solutions engineered for applications where transparency, appearance, light transmission, and long-term performance are critical, Lucite International supports applications across automotive, lighting, electronics, construction, consumer goods, and other specialized markets.

Industry	Typical applications
Optical and lighting	LED diffusers, light guides, luminaires, illuminated signage, and architectural lighting systems, and more.
Automotive and mobility	Headlamp lenses, rear lamp covers, interior and exterior trim, instrument panels, motorcycle screens, EV charging infrastructure components, and more.
Building and construction	Architectural glazing, skylights, signage, roofing systems, decorative features, and more.
Consumer electronics	Display covers, touch panel components, smart home device housings, wearable device components, transparent electronic enclosures, and more.
Packaging	Cosmetic packaging, premium beauty product containers, luxury product packaging, transparent dispensers, display packaging, and more.
Coatings, paints and finishes	Varnishes, paints, specialty coatings, decorative finishes, surface-effect applications, and more.

Why work with Omya Performance Polymer Distribution?

Customers sourcing Lucite International materials through Omya Performance Polymer Distribution benefit from:

- A comprehensive portfolio of premium acrylic (PMMA) technologies
- 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 Lucite International technical teams from concept through production

Let's develop your next application together

Lucite International'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



Talk to an expert

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