

SABIC® PMMA

POLYMETHYL METHACRYLATE (PMMA) is an amorphous thermoplastic commonly referred to as acrylic. SABIC® PMMA can be used for applications that require high transparency, performance and weight reduction, substituting glass in many applications.

KEY PRODUCT PROPERTIES



HIGH TRANSPARENCY
Light Transmission
(Up to 92%)



EXCELLENT SCRATCH RESISTANCE
High Surface Hardness



GOOD CHEMICAL RESISTANCE
Resistance to many chemicals for sanitary and medical applications



EASE OF PROCESSING
Can be easily injection molded or extruded



EXCELLENT WEATHERABILITY
Good resistance to UV and weathering



HIGH GLOSS & COLORABILITY
Various colors and opaque



LIGHTWEIGHT
50% Less weight than glass



GOOD IMPACT RESISTANCE
10 X impact strength vs. glass



KEY APPLICATIONS

AUTOMOTIVE PARTS

- Instrument panels
- Tail light
- Reflectors

LIGHTING

- LED lenses
- Streetlight cover
- Signage

HOUSEWARE

- Dinnerware
- Furniture

DISPLAYS

- Light guide plate
- Screens
- TVs

SHEET

- Residential and agricultural roofing
- Decoration
- Luxury sanitary ware



SABIC® PMMA PORTFOLIO

SABIC Grade	Melt Index (g/10 min)*	Density (g/cm ³)	Characteristics
PMMA 17OP	1.7	1.19	An optical LGP extrusion grade characterized by low foreign matter count and low UV absorbance.
PMMA 20HR	2	1.19	A heat resistance grade, characterized by high temperature of deflection under load ($\geq 98^{\circ}\text{C}$) and high Vicat softening temp ($\geq 105^{\circ}\text{C}$). This standard PMMA grade is suitable for both extrusion and injection molding processes.
PMMA 23SP	2.3	1.19	A special extrusion grade offering a balance of melt flow rate and temperature of deflection under load, making it ideal for extrusion processing with superior UV resistance.
PMMA 140HF	14	1.19	An easy flowing grade for injection molding with high flow ($\text{MI} \geq 10$) offering excellent moldability with fast cycle times.

*Please refer to safety data sheet (SDS) separately for information on EHS general guidelines and precautions during handling and storage of SABIC® PMMA on www.sabic.com



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