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%)

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

- **EXCELLENT WEATHERABILITY**
  Good resistance to UV and weathering

- **LIGHTWEIGHT**
  50% Less weight than glass

- **EXCELLENT SCRATCH RESISTANCE**
  High Surface Hardness

- **EASE OF PROCESSING**
  Can be easily injection molded or extruded

- **HIGH GLOSS & COLORABILITY**
  Various colors and opaque

- **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**

<table>
<thead>
<tr>
<th>SABIC Grade</th>
<th>Melt Index (g/10 min)*</th>
<th>Density (g/cm³)</th>
<th>Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMMA 17OP</td>
<td>1.7</td>
<td>1.19</td>
<td>An optical LGP extrusion grade characterized by low foreign matter count and low UV absorbance.</td>
</tr>
<tr>
<td>PMMA 20HR</td>
<td>2</td>
<td>1.19</td>
<td>A heat resistance grade, characterized by high temperature of deflection under load (≥98OC) and high Vicat softening temp (≥105OC). This standard PMMA grade is suitable for both extrusion and injection molding processes.</td>
</tr>
<tr>
<td>PMMA 23SP</td>
<td>2.3</td>
<td>1.19</td>
<td>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.</td>
</tr>
<tr>
<td>PMMA 140HF</td>
<td>14</td>
<td>1.19</td>
<td>An easy flowing grade for injection molding with high flow (MI≥10) offering excellent moldability with fast cycle times.</td>
</tr>
</tbody>
</table>

*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](http://www.sabic.com)*