

SABIC® PMMA 60MS

POLYMETHYL METHACRYLATE

DESCRIPTION

SABIC® PMMA 60MS is special medium flow PMMA grade suitable for injection molding and extrusion applications. The grade is available in pellet form.

TYPICAL APPLICATIONS

SABIC® PMMA 60MS can be used for

- Household / Tableware applications
- Decorative Parts
- Cosmetics Packaging
- Automotive

TYPICAL PROPERTY VALUES

Revision 20230421

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL PROPERTIES ⁽¹⁾			
Specific Gravity	1.19	g/cm ³	ISO 1183
Melt Flow Rate, 230°C/3.8 kg	6.0	g/10 min	ISO 1133
Water Absorption (24hr)	0.3	%	ISO 62
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Strength	71	MPa	ISO 527
Elongation	7	%	ISO 527
Modulus Of elasticity (1 mm/min)	3.3	GPa	ISO 527
Flexural Strength	130	MPa	ISO 178
Flexural modulus (2 mm/min)	3.3	GPa	ISO 178
Charpy Impact strength (un notched)	19	kJ/m ²	ISO 179
Charpy Impact strength (Notched) 23°C	1.4	kJ/m ²	ISO 179
Rockwell Hardness (M-scale)	94	-	ISO 2039
OPTICAL PROPERTIES ⁽¹⁾			
Total Light Transmittance	93	%	ISO 13468
Haze	0.3	%	ISO 14782
Refractive Index	1.490	-	ISO 489
THERMAL PROPERTIES ⁽¹⁾			
Coefficient of Linear Expansion (-30°C to 30°C)	6e-5	1/°C	ASTM D696
Thermal Conductivity	0.2	W/(m*°C)	ASTM C177
Deflection temperature under load DTUL (@1.8 MPa)	87	°C	ISO 75-1&2
Vicat Softening Temperature (B50)	94	°C	ISO 306

(1) Typical values; not to be construed as specification limits

CHARACTERISTICS

SABIC® PMMA 60MS has the following:

- Balanced Melt Strength & Viscosity
- High Light Transmission
- Better Weathering & UV Resistance
- Easy Processing

STORAGE AND HANDLING

Handle in an area equipped with local or general ventilation. Provide facilities for washing eyes and body in case of emergency near the handling area. As preventive measure, make sure all equipment and devices are properly grounded. Store at a location away from heat and fire source and an area not exposed to sunlight. Store in an area where no water leakage occurs and the humidity is low.

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