

SABIC® PMMA 140HF

POLYMETHYL METHACRYLATE

DESCRIPTION

SABIC® PMMA 140HF is a standard easy flowing grade for Injection molding applications. The grade is available in pellet form.

TYPICAL PROPERTY VALUES

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	14.0	g/10 min	ISO 1133
Water Absorption (24hr)	0.3	%	ISO 62
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Strength	66	MPa	ISO 527
Elongation	4	%	ISO 527
Modulus Of elasticity (1 mm/min)	3.3	GPa	ISO 527
Flexural Strength	120	MPa	ISO 178
Flexural modulus (2 mm/min)	3.3	GPa	ISO 178
Charpy Impact strength (un notched)	18	kJ/m ²	ISO 179
Charpy Impact strength (Notched) 23°C	1.3	kJ/m ²	ISO 179
Rockwell Hardness (M-scale)	86	-	ISO 2039
OPTICAL PROPERTIES ⁽¹⁾			
Total Light Transmittance	93	%	ISO 13468
Haze	0.3	%	ISO 14782
Refractive Index	1.49	-	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)	84	°C	ISO 75-1&2
Vicat Softening Temperature (B50)	89	°C	ISO 306

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

CHARACTERISTICS

SABIC® PMMA 140HF has the following:

- High clarity.
- Good chemical resistance
- Good impact resistance
- Good toughness
- High gloss