



SABIC® PMMA 20HR

POLYMETHYL METHACRYLATE

DESCRIPTION

SABIC® PMMA 20HR is a PMMA grade with good heat resistance property suitable for extrusion and 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	2.0	g/10 min	ISO 1133
Water Absorption (24hr)	0.3	%	ISO 62
MECHANICAL PROPERTIES ⁽¹⁾			
Tensile Strength	77	MPa	ISO 527
Elongation	6	%	ISO 527
Modulus Of elasticity (1 mm/min)	3.3	GPa	ISO 527
Flexural Strength	140	MPa	ISO 178
Flexural modulus (2 mm/min)	3.3	GPa	ISO 178
Charpy Impact strength (un notched)	20	kJ/m ²	ISO 179
Charpy Impact strength (Notched) 23°C	1.4	kJ/m ²	ISO 179
Rockwell Hardness (M-scale)	101	-	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)	100	°C	ISO 75-1&2
Vicat Softening Temperature (B50)	107	°C	ISO 306

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

CHARACTERISTICS

SABIC® PMMA 20HR has the following:

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