

PMMA (20HR)

Polymethyl Methacrylate Acrylic

PHYSICAL PROPERTIES	Unit	Typical Value	Test Method
Specific gravity	g/cm ³	1.19	ISO 1183
Total light transmittance	%	93	ISO 13468
Haze	%	0.3	ISO 14782
Refractive index	-	1.49	ASTM D 542/ISO489
Water adsorption	%	0.3	ISO 62
THERMAL PROPERTIES	Unit	Typical Value	Test Method
Specific heat	J/(g°C)	1.5	JIS K 7123
Coefficient of linear expansion	J/°C	6x10 ⁻⁵	ASTM D 696
Coefficient of thermal conductivity	W/(m°C)	0.2	ASTM C 177
Deflection temperature under load	°C	100	ISO 75
Vicat softening temperature	°C	107	ISO 306
Melt flow rate	g/10min	2	ISO 1133
MECHANICAL PROPERTIES	Unit	Typical Value	Test Method
Tensile Strength	MPa	77	ISO 527
Tensile Elongation	%	6	ISO 527
Modulus Of elasticity	GPa	3.3	ISO 527
Flexural Strength	MPa	140	ISO 178
Flexural Modulus	GPa	3.3	ISO 178
Charpy Impact strength (un notched)	KJ/m ²	20	ISO 179
Charpy Impact strength (Notched)		1.4	ISO 179
Rockwell Hardness	KJ/m ²	101	ISO 2039
ELECTRICAL PROPERTIES	Unit	Typical Value	Test Method
Surface Resistivity	Ω	>10 ¹⁶	JIS K 6911
Volume Resistivity	Ωm	>10 ¹³	JIS K 6911
Dielectric strength	MV/m	20	JIS K 6911
Dielectric constant	-	3.7	JIS K 6911
Power factor	-	0.05	JIS K 6911

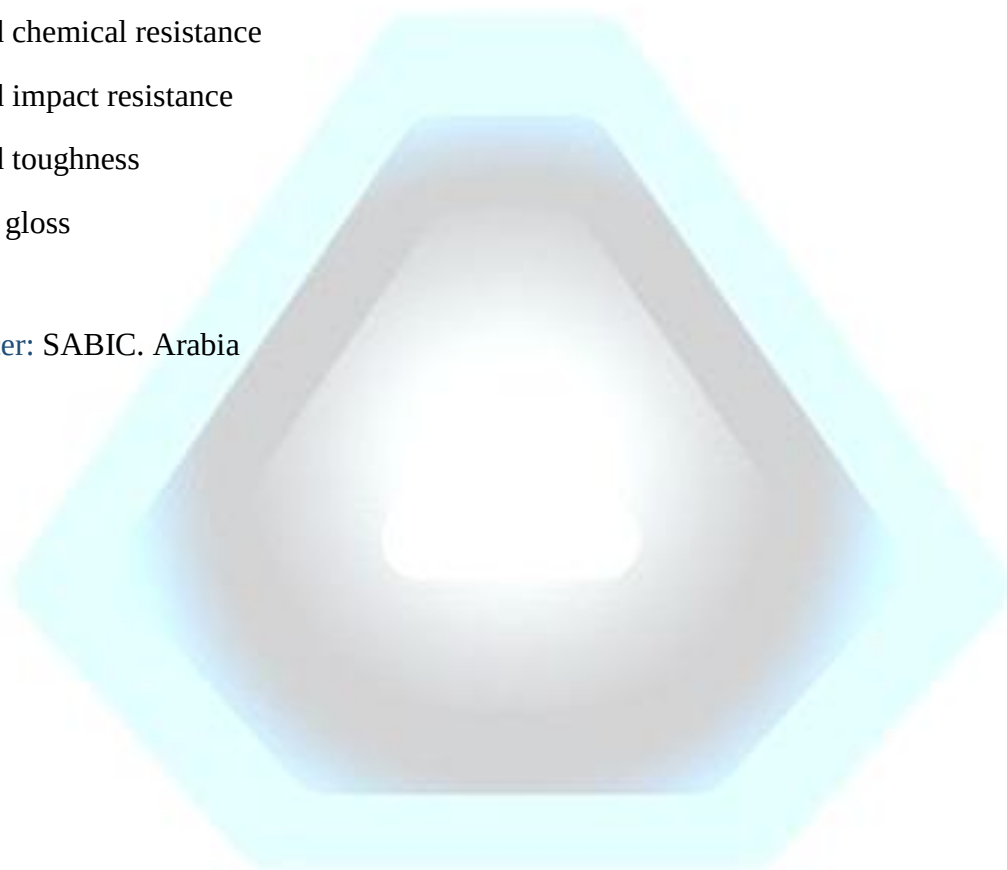
PRODUCT DESCRIPTION:

SABIC™ PMMA 20 HR is a PMMA grade with good heat resistance property suitable for extrusion and injection molding applications. The grade is available in pellet form.

PMMA 20 HR has the following:

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

Producer: SABIC. Arabia



ARKA POLYMER

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