

Polykemi AB POLYplex PMMA 500 Acrylic Glass

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

Information provided by Polykemi AB

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polykemi-AB-POLYplex-PMMA-500-Acrylic-Glass.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Melt Index of Compound	2.0 g/10 min @Load 5.00 kg, Temperature 230 °C	2.0 g/10 min @Load 11.0 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<= 80.0 MPa	<= 11600 psi	ISO/R527
Elongation at Yield	10 %	10 %	ISO/R527
Flexural Strength	<= 140 MPa	<= 20300 psi	ISO 178
Flexural Modulus	3.00 GPa @Temperature 23.0 °C	435 ksi @Temperature 73.4 °F	ISO 178
Charpy Impact, Notched	0.400 J/cm ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °F	120°C/h; ISO 75/1
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	120°C/h; ISO 75/1
Vicat Softening Point	110 °C @Load 5.001 kg	230 °F @Load 11.03 lb	50°C/h; ISO 306
	116 °C @Load 1.00 kg	241 °F @Load 2.21 lb	50°C/h; ISO 306

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