

Lucite International Diakon® ST45G8 Toughened Acrylic Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

The Diakon® impact PMMA series offer the best combination of impact, chemical and heat resistance and provide rigidity and surface hardness. The grades in the Diakon® series can be processed by injection molding or extrusion. Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-ST45G8-Toughened-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	0.36 %	0.36 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	1.3 g/10 min	1.3 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	35	35	ISO 2039-2
Tensile Strength	45.0 MPa	6530 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Flexural Strength	60.0 MPa	8700 psi	ISO 178
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	7.50 kJ/m ²	3.57 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	7.80 J/cm ²	37.1 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	92.0 °C	198 °F	ISO 75A
Vicat Softening Point	93.0 °C	199 °F	ISO 306B
	108 °C	226 °F	ISO 306A
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	3.0 %	3.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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