

Lucite International Diakon® Rapide CLG 356B Enhanced Molding Acrylic Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Specially designed to reduce injection molding cycle times and therefore provide production cost benefits. Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-Rapide-CLG-356B-Enhanced-Molding-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	15 g/10 min	15 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	97	97	ISO 2039-2
Tensile Strength	61.0 MPa	8850 psi	ISO 527
Elongation at Break	3.1 %	3.1 %	ISO 527
Flexural Strength	59.0 MPa	8560 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	16.0 kJ/m ²	7.61 ft-lb/in ²	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Å°C	210 Å°F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Å°C	205 Å°F	ISO 75A
Vicat Softening Point	100 Å°C	212 Å°F	ISO 306B
	104 Å°C	219 Å°F	ISO 306A
Flammability, UL94	HB	HB	
Glow Wire Test	650 Å°C	1200 Å°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	0.50 %	0.50 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

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