

Lucite International Diakon® CLG340 Acrylic Polymer

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

Material Notes:

Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-CLG340-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	19 g/10 min	19 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ISO 2039-2
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1
Tensile Strength	70.0 MPa	10200 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Flexural Strength	95.0 MPa	13800 psi	ISO 178
Flexural Modulus	2.90 GPa	421 ksi	ISO 178
Izod Impact, Notched (ISO)	1.80 kJ/m ²	0.857 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	0.180 J/cm ²	0.857 ft-lb/in ²	ISO 179/1eA
	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 Åµm/m-Å°C	39.4 Åµin/in-Å°F	ASTM E831
Vicat Softening Point	90.0 Å°C	194 Å°F	ISO 306B
	95.0 Å°C	203 Å°F	ISO 306A
Heat Distortion Temperature	85.0 Å°C	185 Å°F	ISO 75A
	88.0 Å°C	190 Å°F	ISO 75B
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	0.40 %	0.40 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

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