

Lucite International Diakon® CMH454L 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-CMH454L-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	1.0 g/10 min	1.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	99	99	ISO 2039-2
Ball Indentation Hardness	190 MPa	27600 psi	ISO 2039-1 (H 961-30)
Tensile Strength	85.0 MPa	12300 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Strength	120 MPa	17400 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Izod Impact, Notched (ISO)	2.10 kJ/m ²	0.999 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	71.0 µm/m-°C	39.4 µin/in-°F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	106 °C	223 °F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ISO 75A
Vicat Softening Point	109 °C	228 °F	ISO 306B
	117 °C	243 °F	ISO 306A

Flammability UL 94 Thermal Properties	HB Metric	HB English	Comments
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	0.40 %	0.40 %	ASTM D1003
Transmission, Visible	92 %	92 %	ASTM D1003

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