

Lucite International Diakon® Frost 902 80 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-Frost-902-80-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Melt Flow	5.8 g/10 min	5.8 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	89	89	ISO 2039-2
Ball Indentation Hardness	170 MPa	24700 psi	ISO 2039-1 (H 961-30)
Tensile Strength	52.0 MPa	7540 psi	ISO 527
Elongation at Break	2.6 %	2.6 %	ISO 527
Flexural Strength	88.0 MPa	12800 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched (ISO)	1.40 kJ/m ²	0.666 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.180 J/cm ²	0.857 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75A
Vicat Softening Point	100 °C	212 °F	ISO 306B
	106 °C	223 °F	ISO 306A
Flammability, UL94	HB	HB	
Glow Wire Test	650 °C	1200 °F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Haze	88.8 %	88.8 %	ASTM D1003
Transmission, Visible	87.3 %	87.3 %	ASTM D1003

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