

Lucite International Diakon® Frost 902 51 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-902-51-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Melt Flow	5.5 g/10 min	5.5 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO 2039-2
Ball Indentation Hardness	180 MPa	26100 psi	ISO 2039-1 (H 961-30)
Tensile Strength	80.0 MPa	11600 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Strength	98.0 MPa	14200 psi	ISO 178
Flexural Modulus	3.10 GPa	450 ksi	ISO 178
Izod Impact, Notched (ISO)	1.30 kJ/m ²	0.619 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	1.10 J/cm ²	5.23 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.170 J/cm ²	0.809 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C	212 Â°F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 Â°F	ISO 75A
Vicat Softening Point	102 Â°C	216 Â°F	ISO 306B
	108 Â°C	226 Â°F	ISO 306A
Flammability, UL94	HB	HB	
Glow Wire Test	650 Â°C	1200 Â°F	IEC 695-2-1

Optical Properties	Metric	English	Comments
Haze	66 %	66 %	ASTM D1003
Transmission, Visible	74 %	74 %	ASTM D1003

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