

Lucite International Diakon® MG100 Acrylic Bead Polymer, High Transparency

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Optical Grade, Molded

Material Notes:

PMMA beads offer an exceptional transmission level of 92.5%, an increase of +0.5% in light transmission vs. granular grades - ideal for medical diagnostic devices. Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-MG100-Acrylic-Bead-Polymer-High-Transparency.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
Particle Size	230 Åµm	230 Åµm	Weight Average; Sieve Test
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	4.8 g/10 min	4.8 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	98	98	ISO 2039-2
Tensile Strength	80.0 MPa	11600 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
Izod Impact, Notched (ISO)	1.80 kJ/m ²	0.857 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	1.80 J/cm ²	8.57 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179/1eA

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)	102 Å°C	216 Å°F	ISO 75B
Deflection Temperature at 1.8 MPa (264 psi)	99.0 Å°C	210 Å°F	ISO 75A
Vicat Softening Point	106 Å°C	223 Å°F	ISO 306B
	113 Å°C	235 Å°F	ISO 306A

Thermal Properties Flammability UL 94	Metric °C	English °F	Comments
Glow Wire Test	650 °C	1200 °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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