

Lucite International Diakon® CRG812 Acrylic Polymer, Toughened Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

The Diakon® impact PMMA series offer the best combination of impact, chemical and heat resistance and provide rigidity and surface hardness. The grades in the Diakon® series can be processed by injection molding or extrusion. Information provided by Lucite International

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucite-International-Diakon-CRG812-Acrylic-Polymer-Toughened-Compound.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Water Absorption	0.35 %	0.35 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	1.8 g/10 min	1.8 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	54	54	ISO 2039-2
Tensile Strength	50.0 MPa	7250 psi	ISO 527
Elongation at Break	25 %	25 %	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ISO 75A
Vicat Softening Point	95.0 °C	203 °F	ISO 306B
	110 °C	230 °F	ISO 306A
Flammability, UL94	HB	HB	

Glow Wire Test Thermal Properties	650 A°C Metric	1200 A°F English	IEC 695-2-1 Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	2.8 %	2.8 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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