

## Lucite International Diakon® CRG800 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-CRG800-Acrylic-Polymer-Toughened-Compound.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-CRG800-Acrylic-Polymer-Toughened-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	
Melt Flow	2.3 g/10 min	2.3 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	71	71	ISO 2039-2
Tensile Strength	59.0 MPa	8560 psi	ISO 527
Elongation at Break	18 %	18 %	ISO 527
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched (ISO)	2.80 kJ/m <sup>2</sup>	1.33 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.270 J/cm <sup>2</sup>	1.28 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	100 Åµm/m-Å°C	55.6 Åµin/in-Å°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Å°C	198 Å°F	ISO 75A
Vicat Softening Point	101 Å°C	214 Å°F	ISO 306B
	111 Å°C	232 Å°F	ISO 306A
Flammability, UL94	HB	HB	
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	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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