

## Lucite International Diakon® TD735 Toughened Acrylic 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-TD735-Toughened-Acrylic-Compound.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-TD735-Toughened-Acrylic-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	1.8 g/10 min	1.8 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	35	35	ISO 2039-2
Tensile Strength	50.0 MPa	7250 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	4.20 kJ/m <sup>2</sup>	2.00 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.470 J/cm <sup>2</sup>	2.24 ft-lb/in <sup>2</sup>	ISO 179/1eA
	5.30 J/cm <sup>2</sup>	25.2 ft-lb/in <sup>2</sup>	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	ASTM E831
Vicat Softening Point	96.0 °C	205 °F	ISO 306B
	107 °C	225 °F	ISO 306A
Heat Distortion Temperature	94.0 °C	201 °F	ISO 75A
Flammability, UL94	HB	HB	
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	2.5 %	2.5 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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