

## Lucite International Diakon® TD542 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-TD542-Toughened-Acrylic-Compound.php](http://www.lookpolymers.com/polymer_Lucite-International-Diakon-TD542-Toughened-Acrylic-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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	0.90 g/10 min	0.90 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	25	25	ISO 2039-2
Tensile Strength	45.0 MPa	6530 psi	ISO 527
Elongation at Break	35 %	35 %	ISO 527
Flexural Modulus	1.70 GPa	247 ksi	ISO 178
Izod Impact, Notched (ISO)	5.20 kJ/m <sup>2</sup>	2.47 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.480 J/cm <sup>2</sup>	2.28 ft-lb/in <sup>2</sup>	ISO 179/1eA
	5.00 J/cm <sup>2</sup>	23.8 ft-lb/in <sup>2</sup>	ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear	123 µm/m-°C	68.3 µin/in-°F	ASTM E831
Vicat Softening Point	94.0 °C	201 °F	ISO 306B
	108 °C	226 °F	ISO 306A
Heat Distortion Temperature	91.0 °C	196 °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	3.0 %	3.0 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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