

Lucite International Diakon® TD525 Toughened Acrylic Compound

Categories: [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

Key Words: PMMA; Polymethyl Methacrylate; Polymethylmethacrylate

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	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	1.9 g/10 min	1.9 g/10 min	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	60	60	ISO 2039-2
Tensile Strength	58.0 MPa	8410 psi	ISO 527
Elongation at Break	20 %	20 %	ISO 527
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Izod Impact, Notched (ISO)	3.20 kJ/m ²	1.52 ft-lb/in ²	ISO 180/1A
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA
Thermal Properties	Metric	English	Comments
CTE, linear	103 µm/m-°C	57.2 µin/in-°F	ASTM E831
Vicat Softening Point	101 °C	214 °F	ISO 306B
	111 °C	232 °F	ISO 306A
Heat Distortion Temperature	92.0 °C	198 °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	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.