

Covestro Prism® CM-200 Polyurethane Solid RIM, MDI-based 2-Component Liquid System

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Solid RIM

Material Notes:

0.125 in. thickness. RIM = Reaction Injection Molding Information provided by Bayer Corporation, Polyurethanes Division As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Prism-CM-200-Polyurethane-Solid-RIM-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	1.09 g/cc	0.0394 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	ASTM D2240
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638/D412
Elongation at Break	9.0 %	9.0 %	ASTM D638/D412
Flexural Yield Strength	76.0 MPa	11000 psi	at 5% strain; ASTM D790
Flexural Modulus	2.03 GPa	294 ksi	ASTM D790
Izod Impact, Unnotched	4.30 J/cm	8.06 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	101 µm/m-°C	56.1 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ASTM D648
UL RTI, Electrical	90.0 °C	194 °F	UL746B
	@Thickness 3.20 mm	@Thickness 0.126 in	
UL RTI, Mechanical with Impact	80.0 °C	176 °F	UL746B
	@Thickness 3.20 mm	@Thickness 0.126 in	
UL RTI, Mechanical without Impact	90.0 °C	194 °F	UL746B
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	5VA	5VA	UL94

Thermal Properties	Metric	English	Comments
	@Thickness 3.18 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.20e+14 ohm-cm	5.20e+14 ohm-cm	ASTM D257
Surface Resistance	7.90e+14 ohm	7.90e+14 ohm	ASTM D257
Dielectric Constant	3.07	3.07	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149

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