

Covestro Baydur® GS-772 Polyurethane Solid RIM, MDI-based 2-Component Liquid System

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

Material Notes:

0.25 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-Baydur-GS-772-Polyurethane-Solid-RIM-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.010 - 0.012 cm/cm	0.010 - 0.012 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	76	76	ASTM D2240
Tensile Strength, Ultimate	39.0 MPa	5660 psi	ASTM D638/D412
Elongation at Break	10 %	10 %	ASTM D638/D412
Flexural Yield Strength	60.0 MPa	8700 psi	ASTM D790
Flexural Modulus	1.40 GPa	203 ksi	ASTM D790
Compressive Yield Strength	35.0 MPa	5080 psi	ASTM D395
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.70 J/cm	6.93 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)	99.0 °C	210 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	V-0	V-0	
	@Thickness 6.35 mm	@Thickness 0.250 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.30e+14 ohm-cm	2.30e+14 ohm-cm	ASTM D257
Surface Resistance	3.10e+15 ohm	3.10e+15 ohm	ASTM D257
Dielectric Constant	3.44 @Frequency 1e+6 Hz	3.44 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	11.5 kV/mm	292 kV/in	ASTM D149

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