

Covestro Baydur® 730 IBS Polyurethane Structural Foam RIM, Density 40 pcf, MDI-based 2-Component Liquid System

Category : Other Engineering Material , Composite Core Material , Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane Foam, Unreinforced

Material Notes:

0.25 in. thickness. IBS = Interactive Blowing System 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-730-IBS-Polyurethane-Structural-Foam-RIM-Density-40-pcf-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	0.640 g/cc	0.0231 lb/in ³	ASTM D792
Apparent Bulk Density	0.640 g/cc	0.0231 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	70	70	ASTM D2240
Tensile Strength, Ultimate	19.0 MPa	2760 psi	ASTM D638/D412
Elongation at Break	10 %	10 %	ASTM D638/D412
Flexural Yield Strength	38.0 MPa	5510 psi	ASTM D790
Flexural Modulus	1.19 GPa	173 ksi	ASTM D790
Compressive Yield Strength	19.0 MPa	2760 psi	ASTM D395
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	Bayer Test

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 μm/m-°C	50.0 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 6.35 mm	@Thickness 0.250 in	
	HB	HB	

Thermal Properties	@Thickness 6.35 mm Metric	@Thickness 0.250 in English	Comments
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