

Covestro Bayflex® 110-35 IMR Polyurethane Elastomeric RIM, 18% Mineral Filled, MDI-based 2-Component Liquid System

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Glass Filled , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Calcium Silicate filled. 0.15 in. thickness. IMR=Internal Mold Release 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-Bayflex-110-35-IMR-Polyurethane-Elastomeric-RIM-18-Mineral-Filled-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ASTM D792
Water Absorption at Saturation	2.8 %	2.8 %	240 hours; Bayer Test
Linear Mold Shrinkage	0.0056 cm/cm	0.0056 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	28.0 MPa	4060 psi	ASTM D638/D412
Elongation at Break	105 %	105 %	ASTM D638/D412
Flexural Modulus	0.470 GPa	68.2 ksi	ASTM D790
Tear Strength	80.0 kN/m	456 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	<= 76.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	<= 42.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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