

Covestro Bayflex® 180 Polyurethane Elastomeric RIM, 20% Mica 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:

0.150 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-Bayflex-180-Polyurethane-Elastomeric-RIM-20-Mica-Filled-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Water Absorption at Saturation	0.20 %	0.20 %	240 hours; Bayer Test
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ASTM D638/D412
Elongation at Break	22 %	22 %	ASTM D638/D412
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Tear Strength	140 kN/m	799 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	135 µm/m-°C @Temperature 20.0 °C	75.0 µin/in-°F @Temperature 68.0 °F	ASTM D696

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