

Covestro Bayflex® 190 Polyurethane Elastomeric RIM, 20% 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:

0.150 in. thickness. Calcium Silicate filled. 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-190-Polyurethane-Elastomeric-RIM-20-Mineral-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	0.10 %	0.10 %	240 hours; Bayer Test
Linear Mold Shrinkage	0.0043 cm/cm	0.0043 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638/D412
Elongation at Break	40 %	40 %	ASTM D638/D412
Flexural Modulus	1.72 GPa	249 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Tear Strength	97.0 kN/m	553 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 °C	37.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 °F	ASTM D696

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