

Covestro Bayflex® MP-5000 Polyurethane Elastomeric RIM, MDI-based 2-Component Liquid System

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Elastomer, Unreinforced , Rubber or Thermoset Elastomer (TSE)

Material Notes:

0.118 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-MP-5000-Polyurethane-Elastomeric-RIM-MDI-based-2-Component-Liquid-System.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	3.3 %	3.3 %	24 hours; Bayer Test
Water Absorption at Saturation	5.0 %	5.0 %	240 hours; Bayer Test
Linear Mold Shrinkage	0.0125 cm/cm	0.0125 in/in	Bayer Test

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	13.0 MPa	1890 psi	ASTM D638/D412
Elongation at Break	360 %	360 %	ASTM D638/D412
Flexural Modulus	0.0300 GPa	4.35 ksi	ASTM D790
Tear Strength	40.0 kN/m	228 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 °C	52.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 °F	ASTM D696

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