

Covestro Bayflex® 110-50 Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS , Thermoset Polyurethane, Liquid

Material Notes:

Information provided by Bayer.As of 1 September 2015, Bayer MaterialScience 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-110-50-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Water Absorption	2.8 %	2.8 %	240 hours
Water Absorption at Saturation	2.8 %	2.8 %	240 hours
Linear Mold Shrinkage	0.013 cm/cm	0.013 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM D2240
Tensile Strength, Ultimate	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	18.0 MPa	2610 psi	
Elongation at Break	250 %	250 %	ASTM D638/D412
Elongation at Yield	8.0 %	8.0 %	
Tensile Modulus	1.10 GPa	160 ksi	
Flexural Modulus	0.400 GPa	58.0 ksi	ASTM D790
Izod Impact, Notched	5.90 J/cm	11.1 ft-lb/in	ASTM D256
Charpy Impact Unnotched	NB	NB	
	0.772 J/cm ²	3.67 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	3.48 J/cm ²	16.6 ft-lb/in ²	
Tear Strength	79.0 kN/m	451 pli	Die C; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 µm/m-°C	30.0 µin/in-°F	

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
CTE, linear, Transverse to Flow	164 µm/m-°C	91.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	148 °C	298 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

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