

Covestro Baydur® GS PIR B Polyurethane

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

Material Notes:

PIR casting system for the production of solid components. Mechanical properties can be varied by adjusting the mixing ratio in the range 1:1-1:2. 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-Baydur-GS-PIR-B-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Water Absorption	4.0 %	4.0 %	Saturation in water
Water Absorption at Saturation	4.0 %	4.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	42.0 MPa	6090 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	1.30 GPa	189 ksi	
Charpy Impact Unnotched	2.80 J/cm ²	13.3 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	1250 MPa	181000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	140 µm/m-°C	77.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	195 °C	383 °F	
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	
Vicat Softening Point	245 °C	473 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.00e+13 ohm-cm	7.00e+13 ohm-cm	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	
Comparative Tracking Index	600 V	600 V	

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