

Covestro Baydur® GS PIR A 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 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-Baydur-GS-PIR-A-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	
Water Absorption	3.0 %	3.0 %	Saturation in water
Water Absorption at Saturation	3.0 %	3.0 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	27.0 MPa	3920 psi	
Elongation at Break	18 %	18 %	
Tensile Modulus	0.650 GPa	94.3 ksi	
Charpy Impact Unnotched	4.60 J/cm ²	21.9 ft-lb/in ²	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	600 MPa	87000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	160 µm/m-°C	88.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	183 °C	361 °F	
Deflection Temperature at 1.8 MPa (264 psi)	109 °C	228 °F	
Vicat Softening Point	178 °C	352 °F	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Strength	15.0 kV/mm	381 kV/in	
Comparative Tracking Index	600 V	600 V	

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