

Covestro Baygal® 90 IK 51 Polyurethane

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

Material Notes:

Uses: Suitable for the solid insulation of measuring transducers. 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-Baygal-90-IK-51-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	
Water Absorption	0.060 %	0.060 %	Saturation in water
Water Absorption at Saturation	0.060 %	0.060 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	84.0 MPa	12200 psi	
Elongation at Break	1.4 %	1.4 %	
Tensile Modulus	9.00 GPa	1310 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	40.0 µm/m-°C	22.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	90.0 °C	194 °F	
Oxygen Index	29 %	29 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	4.0	4.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.3	4.3	
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties Dielectric Strength	Metric 29.0 kV/mm	English 737 kV/in	Comments
Dissipation Factor	0.011	0.011	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.013	0.013	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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