Covestro Baygal® 90 IK 69 Polyurethane

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

Material Notes:

Uses: Suitable for impregnation and encapsulation of coils, especially when high heat deflection temperature, and eventually fire resistance is requested.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-69-Polyurethane.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in³	
Water Absorption	0.090 %	0.090 %	Saturation in water
Water Absorption at Saturation	0.090 %	0.090 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	
Elongation at Break	1.1 %	1.1 %	
Tensile Modulus	8.00 GPa	1160 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C @Temperature 20.0 °C	23.3 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	42.0 µm/m-°C @Temperature 20.0 °C	23.3 µin/in-°F @Temperature 68.0 °F	
Glass Transition Temp, Tg	140 °C	284 °F	
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	51 %	51 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	8.00e+14 ohm-cm	8.00e+14 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
	4.5	4.5	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.7 @Frequency 1e+6 Hz	4.7 @Frequency 1e+6 Hz	
	4.7 @Frequency 100 Hz	4.7 @Frequency 100 Hz	
Dielectric Strength	34.0 kV/mm	864 kV/in	
Dissipation Factor	0.010 @Frequency 1e+6 Hz	0.010 @Frequency 1e+6 Hz	
	0.025 @Frequency 100 Hz	0.025 @Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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