

## Covestro Baygal® 90 IK 20 Polyurethane

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

### Material Notes:

Uses: Suitable for the production of parts: for example: insulators, bushing insulators, components of switchgear cabinets. 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-Baygal-90-IK-20-Polyurethane.php](http://www.lookpolymers.com/polymer_Covestro-Baygal-90-IK-20-Polyurethane.php)

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in <sup>3</sup>	
Water Absorption	0.050 %	0.050 %	Saturation in water
Water Absorption at Saturation	0.050 %	0.050 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	88.0 MPa	12800 psi	
Elongation at Break	1.3 %	1.3 %	
Tensile Modulus	9.10 GPa	1320 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.0 µm/m-°C	18.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	34.0 µm/m-°C	18.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Glass Transition Temp, Tg	140 °C	284 °F	
Oxygen Index	35 %	35 %	

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	4.3	4.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	4.5	4.5	

Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	Comments
Dielectric Strength	32.0 kV/mm	813 kV/in	
Dissipation Factor	0.013	0.013	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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