

## BASF Luranyl® KR 2454/3 G2 Polyphenylene Ether + Styrene-Butadiene Blend, 10% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether + Styrene-Butadiene Blend, Glass Filled , Styrene-Butadiene

### Material Notes:

Heat resistant grade with halogen-free flame retardant; applications include TV plug connectors and components in switchgear cabinets. Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Luranyl-KR-24543-G2-Polyphenylene-Ether-Styrene-Butadiene-Blend-10-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_BASF-Luranyl-KR-24543-G2-Polyphenylene-Ether-Styrene-Butadiene-Blend-10-Glass-Fiber-Reinforced.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	
Water Absorption	0.40 %	0.40 %	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	
Linear Mold Shrinkage, Flow	0.0045 cm/cm	0.0045 in/in	
High Load Melt Index	24 g/10 min	24 g/10 min	
	@Load 21.6 kg, Temperature 250 °C	@Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	75.0 MPa	10900 psi	
Elongation at Break	4.0 %	4.0 %	
Tensile Modulus	4.50 GPa	653 ksi	
Charpy Impact Unnotched	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	
	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.10 J/cm <sup>2</sup>	5.24 ft-lb/in <sup>2</sup>	
	1.10 J/cm <sup>2</sup>	5.24 ft-lb/in <sup>2</sup>	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	45.0 µm/m-°C	25.0 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (0.07 psi)	133 °C	271 °F	
Deflection Temperature at 1.8 MPa (264 psi)	133 °C	271 °F	
Vicat Softening Point	138 °C	280 °F	
Flammability, UL94	V-1	V-1	
	@Thickness 3.20 mm	@Thickness 0.126 in	
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+14 ohm	1.00e+14 ohm	
Dielectric Constant	2.8	2.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.8	2.8	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	85.0 kV/mm	2160 kV/in	
Dissipation Factor	0.0030	0.0030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	225 V	225 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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