

BASF Luranyl® KR 2451/3 Polyphenylene Ether + Styrene-Butadiene Blend

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

Material Notes:

Especially easy flowing grade containing halogen-free, flame-retardant; mainly used for housings for electrical equipment and in the electronics sector. 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-24513-Polyphenylene-Ether-Styrene-Butadiene-Blend.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	
Water Absorption	0.40 %	0.40 %	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
High Load Melt Index	130 g/10 min	130 g/10 min	
	@Load 21.5 kg, Temperature 250 °C	@Load 47.4 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	63.0 MPa	9140 psi	
Elongation at Break	40 %	40 %	
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	NB	NB	
	2.00 J/cm ²	9.52 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	
	2.00 J/cm ²	9.52 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C	36.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa	107 °C	225 °F	

(56 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	
Vicat Softening Point	108 °C	226 °F	
Flammability, UL94	V-1	V-1	
	@Thickness 3.17 mm	@Thickness 0.125 in	

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	2.7	2.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.7	2.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	275 V	275 V	

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