BASF Luranyl® KR 2460/3 Polyphenylene Ether + Styrene-Butadiene Blend

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

Material Notes:

Flame retardant grade with very high heat resistance; used for precision parts and where the material must withstand high injection temperatures (e.g. heater-fan impellers).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-24603-Polyphenylene-Ether-Styrene-Butadiene-Blend.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in³	
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	8.0 g/10 min @Load 21.6 kg, Temperature 250 °C	8.0 g/10 min @Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.0 MPa	10900 psi	
Elongation at Break	20 %	20 %	
Elongation at Yield	5.0 %	5.0 %	
Tensile Modulus	2.80 GPa	406 ksi	
Charpy Impact Unnotched	NB	NB	
	1.00 J/cm²	4.76 ft-lb/in²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.50 J/cm²	11.9 ft-lb/in²	
	2.50 J/cm²	11.9 ft-lb/in²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature 20.0 °C	36.1 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa	157 °C	315 °F	

(66 psi)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	140 °C	284 °F	
Vicat Softening Point	160 °C	320 °F	
Flammability, UL94	V-0 @Thickness 3.10 mm	V-0 @Thickness 0.122 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	2.8 @Frequency 1e+6 Hz	2.8 @Frequency 1e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 kV/in	
Dissipation Factor	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	

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