

BASF Luranyl® KR 2403 G4 Polyphenylene Ether + Styrene-Butadiene Blend, 20% Glass Fiber Reinforced

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

Material Notes:

General-purpose grade with 20% glass fiber for parts requiring especially good resistance to heat deformation. Applications: sanitary fittings and parts for fans, computer keyboards. 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-2403-G4-Polyphenylene-Ether-Styrene-Butadiene-Blend-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Water Absorption	0.30 %	0.30 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	
High Load Melt Index	11 g/10 min @Load 21.6 kg, Temperature 250 °C	11 g/10 min @Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	90.0 MPa	13100 psi	
Elongation at Break	3.0 %	3.0 %	
Tensile Modulus	6.50 GPa	943 ksi	
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	
	1.30 J/cm ² @Temperature -30.0 °C	6.19 ft-lb/in ² @Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	6100 MPa	885000 psi	
Tensile Creep Modulus, 1000 hours	5150 MPa	747000 psi	

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	n/m-°C	in/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	
Deflection Temperature at 1.8 MPa (264 psi)	139 °C	282 °F	
Vicat Softening Point	142 °C	288 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 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	2.9	2.9	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	95.0 kV/mm	2410 kV/in	
Dissipation Factor	0.00080	0.00080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	

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