

BASF Luranyl® KR 2403 G6 Polyphenylene Ether + Styrene-Butadiene Blend, 30% Glass Fiber Reinforced

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

Material Notes:

General-purpose grade with 30% glass fiber for parts requiring especially good resistance to heat deformation. Applications: parts for hot-water contact, pump housings, fan blades. 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-G6-Polyphenylene-Ether-Styrene-Butadiene-Blend-30-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	
Water Absorption	0.30 %	0.30 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
High Load Melt Index	7.0 g/10 min @Load 21.6 kg, Temperature 250 °C	7.0 g/10 min @Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	
Elongation at Break	2.5 %	2.5 %	
Tensile Modulus	9.00 GPa	1310 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	1.40 J/cm ²	6.66 ft-lb/in ²	
	1.40 J/cm ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	
Tensile Creep Modulus, 1 hour	7100 MPa	1.03e+6 psi	
Tensile Creep Modulus, 1000 hours	6100 MPa	885000 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)	145 °C	293 °F	
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	286 °F	
Vicat Softening Point	145 °C	293 °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	90.0 kV/mm	2290 kV/in	
Dissipation Factor	0.0010	0.0010	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	

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