

BASF Luranyl® KR 2404 Polyphenylene Ether + Styrene-Butadiene Blend

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

Material Notes:

Base grade with high heat deformation resistance and a balanced combination of stiffness and toughness. Uses include: steering-wheel covers and heater controls. 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-2404-Polyphenylene-Ether-Styrene-Butadiene-Blend.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	
Water Absorption	0.30 %	0.30 %	
Moisture Absorption at Equilibrium	0.10 %	0.10 %	
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	
High Load Melt Index	65 g/10 min @Load 21.6 kg, Temperature 250 °C	65 g/10 min @Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	
Elongation at Break	35 %	35 %	
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	NB	NB	
	3.00 J/cm ² @Temperature -30.0 °C	14.3 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	
	2.20 J/cm ² @Temperature -30.0 °C	10.5 ft-lb/in ² @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	122 °C	252 °F	

(56 psi) Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	111 °C	232 °F	
Vicat Softening Point	125 °C	257 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 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	2.6	2.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.7	2.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	95.0 kV/mm	2410 kV/in	
Dissipation Factor	0.00050	0.00050	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	300 V	300 V	

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