

BASF Luranyl® KR 2401 Polyphenylene Ether + Styrene-Butadiene Blend, Impact Grade

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

Material Notes:

Base grade with a balanced combination of impact strength and stiffness. Uses include: parts of vehicle interiors, air ducts and loudspeaker housings. 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-2401-Polyphenylene-Ether-Styrene-Butadiene-Blend-Impact-Grade.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	110 g/10 min @Load 21.6 kg, Temperature 250 °C	110 g/10 min @Load 47.6 lb, Temperature 482 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	
Elongation at Break	30 %	30 %	
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.50 GPa	363 ksi	
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	
	1.00 J/cm ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	
	2.00 J/cm ² @Temperature -30.0 °C	9.52 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	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			
Deflection Temperature at 1.8 MPa (264 psi)	106 °C	223 °F	
Vicat Softening Point	117 °C	243 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.810 mm	@Thickness 0.0319 in	
Oxygen Index	22 %	22 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	$\geq 1.00\text{e}+15$ ohm-cm	$\geq 1.00\text{e}+15$ ohm-cm	
Surface Resistance	$1.00\text{e}+14$ ohm	$1.00\text{e}+14$ ohm	
Dielectric Constant	2.6	2.6	
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.6	2.6	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	90.0 kV/mm	2290 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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