Schwartz Technical Plastics LAMINEXÂ® 2141 Cotton Fabric, Phenolic Resin Impregnated, MoS2 Filled

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Fabric Filled

Material Notes:

Application: bearing segments and prismatic bearingsInformation provided by Schwartz Technical Plastics GmbH

Order this product through the following link:
http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMINEX-2141-Cotton-Fabric-Phenolic-Resin-Impregnated-MoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/inÂ³	ISO R 1183
Water Absorption at Saturation	2.2 % @Temperature 20.0 Â°C	2.2 % @Temperature 68.0 Â°F	ISO R 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	40.0 - 60.0 MPa	5800 - 8700 psi	ISO-DIS 527
Flexural Strength	60.0 MPa	8700 psi	DIN 54352
Flexural Modulus	7.00 - 10.0 GPa	1020 - 1450 ksi	DIN 53457
Compressive Strength	140 MPa	20300 psi	ISO 604
Izod Impact, Notched (ISO)	>= 8.00 kJ/mÂ²	>= 3.81 ft-lb/inÂ²	DIN 53453
Izod Impact Resistance	>= 0.800 J/cmÂ²	>= 3.81 ft-lb/inÂ²	swinging hammer 0,1 DIN 51222; DIN 53453

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 - 40.0 Âµm/m-Â°C @Temperature 20.0 - 100 Â°C	16.7 - 22.2 Âµin/in-Â°F @Temperature 68.0 - 212 Â°F	DIN 53752
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ftÂ²-Â°F	DIN 52612
Maximum Service Temperature, Air	125 Â°C	257 Â°F	Continuous
	150 Â°C	302 Â°F	Intermittent

Electrical Properties	Metric	English	Comments

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	DIN 53482
Surface Resistance	1.00e+8 ohm	1.00e+8 ohm	DIN 53482
Dielectric Constant	6.0 - 10 @Frequency 1000 Hz	6.0 - 10 @Frequency 1000 Hz	DIN 53483
Dielectric Strength	20.0 kV/mm	508 kV/in	DIN 53481
Dielectric Loss Index	0.40 @Frequency 1000 Hz	0.40 @Frequency 1000 Hz	DIN 53483

Descriptive Properties	Value	Comments
Moisture Absorption at Equilibrium	300 mg	DIN 53472

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