

Schwartz Technical Plastics LAMINEX® 2040 Cotton Fabric, Phenolic Resin Impregnated, MoS2 Filled

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

Material Notes:

Application: slippers, gear-rods, bushes
Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMINEX-2040-Cotton-Fabric-Phenolic-Resin-Impregnated-MoS2-Filled.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO R 1183

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	170 MPa	24700 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO-DIS 527
Tensile Modulus	7.00 GPa	1020 ksi	DIN 53457
Flexural Strength	80.0 - 100 MPa	11600 - 14500 psi	DIN 54352
Compressive Strength	170 MPa	24700 psi	ISO 604
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	DIN 53453
Izod Impact Resistance	1.80 J/cm ²	8.57 ft-lb/in ²	swinging hammer 0,1 DIN 51222; DIN 53453
Coefficient of Friction	0.020	0.020	With lubrication
Coefficient of Friction, Dynamic	0.020	0.020	no lube; Steel 2162, Rvst=2E-6m, p=0.05 Mpa, v=0.6 m/s, t=40°C

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 Åµm/m-Å°C	16.7 Åµin/in-Å°F	DIN 53752
	@Temperature 20.0 - 100 Å°C	@Temperature 68.0 - 212 Å°F	
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ftÅ²-Å°F	DIN 52612
Maximum Service Temperature, Air	120 Å°C	248 Å°F	Continuous
	150 Å°C	302 Å°F	Intermittent

Electrical Properties	Metric	English	Comments
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Surface Resistance Electrical Properties	1.00e+8 ohm Metric	1.00e+8 ohm English	DIN 53482 Comments
Dielectric Constant	5.0	5.0	DIN 53483
Dielectric Loss Index	0.30	0.30	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KA1	DIN 53480
Moisture Absorption at Equilibrium	100 mg	DIN 53472

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