

Schwartz Technical Plastics LAMINEX[®] 2100 Cotton Fabric, Phenolic Resin Impregnated

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

Material Notes:

Application: bearing shells and bearing collars
Information provided by Schwartz Technical Plastics GmbH

Order this product through the following link:

http://www.lookpolymers.com/polymer_Schwartz-Technical-Plastics-LAMINEX-2100-Cotton-Fabric-Phenolic-Resin-Impregnated.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO R 1183

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	130 MPa	18900 psi	Hc 30; ISO 2039; partially
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO-DIS 527
Tensile Modulus	6.00 - 8.00 GPa	870 - 1160 ksi	DIN 53457
Flexural Strength	80.0 MPa	11600 psi	DIN 54352
Compressive Strength	150 MPa	21800 psi	ISO 604
Izod Impact, Notched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	DIN 53453
Izod Impact Resistance	2.50 J/cm ²	11.9 ft-lb/in ²	swinging hammer 0,1 DIN 51222; DIN 53453

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 - 30.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.33 - 16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	DIN 53752
	@Temperature 20.0 - 100 $\text{Å}^\circ\text{C}$	@Temperature 68.0 - 212 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	DIN 52612
Maximum Service Temperature, Air	125 $\text{Å}^\circ\text{C}$	257 $\text{Å}^\circ\text{F}$	Continuous
	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	Intermittent

Electrical Properties	Metric	English	Comments
Dielectric Constant	5.0	5.0	DIN 53483

Descriptive Properties	Value	Comments
Creepage/leakage Resistance	KC100	DIN 53480

Descriptive Properties	Value	Comments
Moisture Absorption at Equilibrium	450 mg	DIN 53472

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