

LAMINEX® 2141

Phenol Formaldehyde Resin

Schwartz Technical Plastic

Message:

Cotton fabric clips, phenolic resin impregnated filled with MoS2, compression moulded

Applications:

Bearing segments

Prismatic bearings

General Information			
Additive	Molybdenum disulfide lubricant		
Uses	Fabric		
	Bearing		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Water Absorption (Saturation, 23°C)	2.2	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	40.0 - 60.0	MPa	ISO 527-2
Fracture	60.0	MPa	ISO 527-2
Flexural Modulus	7000 - 10000	MPa	ISO 178
Compressive Stress	140	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 8.0	kJ/m²	ISO 180
Unnotched Izod Impact Strength	> 8.0	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.0E-5 - 4.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.30	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9	ohms	IEC 60093
Dielectric Strength	20	kV/mm	IEC 60243-1
Dielectric Constant (1 kHz)	6.00 - 10.0		IEC 60250
Dissipation Factor (1 kHz)	0.40		IEC 60250
Additional Information			

Safe Temperature Range, short periods: 150°C Safe Temperature Range, permanent: 125°C Moisture Absorption under normal air condition: 300 mg Penetration Resistance: 1e9 ohm-cm

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