

LAMINEX® 2040

Phenol Formaldehyde Resin

Schwartz Technical Plastic

Message:

Cotton fabric, phenolic resin impregnated, MoS 2 -filled

Applications:

Brushes

Slippers

Gear-rods

General Information			
Additive	Molybdenum disulfide lubricant		
Uses	Gear		
	Fabric		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	170	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	50.0	MPa	ISO 527-2
Fracture	80.0 - 100	MPa	ISO 527-2
Compressive Stress	170	MPa	ISO 604
Coefficient of Friction			ASTM D1894
With steel-static ¹	0.020		ASTM D1894
With steel-static ²	0.020		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	18	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	3.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.29	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+8	ohms	IEC 60093
Dielectric Constant	5.00		IEC 60250
Dissipation Factor	0.30		IEC 60250
Additional Information			
Creepage/leakage Resistance: KA1Safe Temperature Range, short periods: 150°CSafe Temperature Range, permanent: 120°CMoisture Absorption under normal air condition: 100 mg			
NOTE			

- | | |
|----|---------------------|
| 1. | without lubrication |
| 2. | with lubrication |

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