

LAMINEX® 2100

Phenol Formaldehyde Resin

Schwartz Technical Plastic

Message:

Cotton fabric, phenolic resin impregnated, compression-moulded in moulds

Applications:

Bearing shells

Bearing collars

General Information			
Uses	Fabric		
	Bearing		
Processing Method	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm³	ISO 1183
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	130	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000 - 8000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	60.0	MPa	ISO 527-2
Fracture	80.0	MPa	ISO 527-2
Compressive Stress	150	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	18	kJ/m²	ISO 180
Unnotched Izod Impact Strength	25	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	1.5E-5 - 3.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.30	W/m/K	ISO 8302
Electrical	Nominal Value		Test Method
Dielectric Constant	5.00		IEC 60250
Additional Information			

Creepage/leakage Resistance: KC100Safe Temperature Range, short periods: 150°C Safe Temperature Range, permanent: 125°C Moisture Absorption under normal air condition: 450 mg

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