

PHENOLIC COTTON LAMINATE

TECHNICAL DATA SHEET
 Rev.01 - 05/02/2019



DESCRIPTION:

Cotton Fabric (24x24 +/-2) and phenolic resin laminate.

APPLICATIONS:

- Interrupting rods
- Units designed for electrical applications at low voltage conditions;
- Disconnectors for transmission lines
- Parts of car engines coils
- Threaded materials
- Friction-reducing products for sliding parts (textile machinery components, compasses, slides, gears, etc.)

TECHNICAL SPECIFICATIONS:

	UNIT	VALUES	NORM
Density	g/cm ³	1,35	ISO 1183
Water Absorption mm 3	mg	249	IEC 60893-2
Thermal classification	°C	E (120°C)	IEC 60216
Self-extinguishing		HB	UL 94
Thermal Conductivity	W/mK	0,2	ISO 8302
Expansion Coefficient	10 ⁻⁶ /K	18	VDE 0304/VSM
Silicone Resin Content	%	-	IEC 371-2
Mica Content	%	-	IEC 371-2
Thickness	mm	0,5 up to 100	
MECHANICAL PROPERTIES			
Flexural Strength (perp.)	MPa	100	ISO 178
Charpy Impact Strength	KJ/m ²	9,7	ISO 179

Tensile Strength	MPa	83	ISO 527
Compressive Strength	MPa	160	ISO 604
Bonding Strength //	N	7000	CEI
Modulus Of Elasticity	MPa	7000	ISO 178
DIELECTRICAL PROPERTIES			
Insulation Resistance	MOhm	1	ISO 60137
Dielectric Strength //	KV	2	ISO 60243-1
Dielectric Strength (perp.)	KV/mm	0,6	ISO 60243-1
Tracking Resistance	V	-	IEC 60112
Arc Resistance	S	-	ASTM D495
Dissipation Factor at 1MHz		-	IEC 60250
Dielectric Constant (permittivity) at 1MHz		-	IEC 60250