

M46

SHEET

Composite: cotton cloth – modified epoxy resin

Color: red-brown

CHARACTERISTICS AND APPLICATIONS

Composite with good mechanical properties . Fine textured cotton fabric (type F – CEI Standards) with flame retardant and antitracking resin.

Mechanical properties

Flexural strenght	(ISO 178)	100 MPa
Modulus of elasticity	(ISO 178)	7600 MPa
Compressive strenght	(ISO 604)	140 MPa
Izod impact strenght	(ISO 108)	4 kJ/m ²

Electrical Properties

Electrical strenght at 90°C, in oil, perpendicular to lamination	(IEC 243-1)	5 kV/mm	(2 mm)
Break down voltage, at 90°C in oil, parallel to laminations	(IEC 243-1)	25 kV	
Comparative tracking index	(IEC 60112)	>600 V	
Dry arc resistance	(ASTM D495)	>180 sec.	

Physical and thermal properties

Density	(ISO 1183)	1,3-1,4 gr/cc
Water absorption	(ISO 62)	< 1%
thermal conductivity	(ISO 8302)	0,2 W/mK
linear expansion coefficient	(VDE 0304/2)	10-20 $10^{-6} K^{-1}$
Max working temperature	(ISO 11357-2)	155°C
Insulating class	(CEI)	F
Flammability	(UL94)	V0

Note: Above listed features are the result of tests performed in FILP internal laboratory and on products obtained from current production. Deviations from average values on these material may normally occur. Suggestion and indications to final user are provided just to draw user's attention to check the product features on his own. User has to test the product to determine its suitability to the required application.

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