

M41

SHEET

Composite: cotton cloth – phenolic resin

Color: yellow-brown

Standards: IEC 893 PFCC201
DIN 7735 Hgw 2082
NEMA LI1 C

CHARACTERISTICS AND APPLICATIONS

Composite with good mechanical properties . Fine textured cotton fabric (type F – CEI Standards)

Mechanical properties

Flexural strenght	(ISO 178)	100 MPa
Modulus of elasticity	(ISO 178)	7000 MPa
Compressive strenght	(ISO 604)	150 MPa
Izod impact strenght	(ISO 108)	8 kJ/m ²
Tensile strenght	(ISO 527)	80 MPa

Electrical Properties

Electrical strenght at 90°C,in oil, perpendicular to lamination	(IEC 243-1)	1 kV/mm	(2 mm)
Break down voltage, at 90°C in oil, parallel to laminations	(IEC 243-1)	15 kV	

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Physical and thermal properties

Density	(ISO 1183)	1,3-1,4 gr/cc
Water absorption	(ISO 62)	< 1%
thermal conductivity	(ISO 8302)	0,3 W/mK
linear expansion coefficient	(VDE 0304/2)	10-20 $10^{-6} K^{-1}$
Max working temperature	(ISO 11357-2)	120°C
Insulating class	(CEI)	E

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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