

M3

SHEET

Composite: Kraft paper – phenolic resin

Color: brown

Standards: IEC 893 PFCP201 – PFCP207
DIN 7735 Hp 2061
NEMA LI1 X - XPC

CHARACTERISTIC AND APPLICATIONS

Composite with good mechanical and electric properties , suitable for applications in medium voltage. M4 version is easier to pinch.

Mechanical properties

Flexural strenght	(ISO 178)	150 MPa
Modulus of elasticity	(ISO 178)	9000 MPa
Compressive strenght	(ISO 604)	150 MPa
Izod impact strenght	(ISO 108)	3 kJ/m ²
Tensile strenght	(ISO 527)	110 MPa

Electrical Properties

Electrical strenght at 90°C,in oil, perpendicular to lamination	(IEC 243-1)	15 kV/mm	(2 mm)
Break down voltage, at 90°C in oil, parallel to laminations	(IEC 243-1)	30 kV	

Physical and thermal properties

Density	(ISO 1183)	1,3-1,4 gr/cc
Water absorption	(ISO 62)	1.5%
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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