

M63

SHEET

Composite: glass cloth+glass mat – epoxy resin

Color: yellow-beige

Closest Standard: IEC 893 EPGM 305

CHARACTERISTICS AND APPLICATIONS

Composite with good mechanical and dielectric properties at high temperatures . Insulating class H. Suitable to substitute EPGC 203 materials in some application, due to high content of glass has high compressive resistance and good value for money.

Mechanical properties

Flexural strenght	(ISO 178)	380 MPa
Modulus of elasticity	(ISO 178)	20000 MPa
Compressive strenght	(ISO 604)	>500 MPa
Izod impact strenght	(ISO 108)	100 kJ/m ²
Tensile strenght	(ISO 527)	220 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)	40 kV	
Permittivity at 48-62 Hz	(IEC 250)	5,5	
Dissipation factor at 48-62 Hz	(IEC 250)	0,04	

Physical and thermal properties

Density	(ISO 1183)	2,0 gr/cc
Water absorption	(ISO 62)	0,11 %
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)	180°C
Insulating class	(CEI)	H

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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