

M76

SHEET

Composite: glass roving –modified epoxy resin

Color: red-brown

Standards: IEC 893 EPGC 205
DIN 7735 Hgw 2370.4
NEMA LI1 FR5

CHARACTERISTICS AND APPLICATIONS

Composite with good mechanical and dielectric properties at high temperatures . Insulating class H. Alogen free.
M36 has autoextinguishing properties (V0-UL94) and anti-tracking characteristic.

Mechanical properties

Flexural strenght	(ISO 178)	650 MPa
Modulus of elasticity	(ISO 178)	28000 MPa
Compressive strenght	(ISO 604)	550 MPa
Izod impact strenght	(ISO 108)	200 kJ/m ²
Tensile strenght	(ISO 527)	500 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)	60 kV	
Permittivity at 48-62 Hz	(IEC 250)	5,5	
Dissipation factor at 48-62 Hz	(IEC 250)	0,04	

Comparative tracking index	(IEC 60112)	>600 V	
Dry arc resistance	(ASTM D495)	>180 sec.	

Physical and thermal properties

Density	(ISO 1183)	1,9-2,0 gr/cc
Water absorption	(ISO 62)	0,07 % - 10 mg
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
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.

FILP does not bear any responsibility for possible direct or indirect damages, harms, costs deriving to persons further to partial or fully reliance on the data of this sheet, without any prior verification from user's side.

No information or value provided in this data sheet constitute any warranty for the use of the product or against possible direct or indirect damages deriving from any kind of usage.

FILP reserve the right to modify the listed values in this data-sheet without any prior notice.