

## M73

## SHEET

**Composite:** glass roving – epoxy resin

**Color:** yellow-beige

**Standards:** IEC 893 EPGC205  
DIN 7735 Hgw 2370.4  
NEMA LI1 G11

### CHARACTERISTICS AND APPLICATIONS

Composite with very good mechanical and dielectric properties at high temperatures . Insulating class H. Al ogen free..

#### Mechanical properties

<b>Flexural strenght</b>	(ISO 178)	650 MPa
<b>Modulus of elasticity</b>	(ISO 178)	28000 MPa
<b>Compressive strenght</b>	(ISO 604)	550 MPa
<b>Izod impact strenght</b>	(ISO 108)	200 kJ/m <sup>2</sup>
<b>Tensile strenght</b>	(ISO 527)	500 MPa

#### Electrical Properties

<b>Electrical strenght at 90°C,in oil, perpendicular to lamination</b>	(IEC 243-1)	15 kV/mm	(2 mm)
<b>Break down voltage, at 90°C in oil, parallel to laminations</b>	(IEC 243-1)	40 kV	
<b>Permittivity at 48-62 Hz</b>	(IEC 250)	5,5	
<b>Dissipation factor at 48-62 Hz</b>	(IEC 250)	0,04	

## Physical and thermal properties

<b>Density</b>	(ISO 1183)	1,9-2,0 gr/cc
<b>Water absorption</b>	(ISO 62)	0,05
<b>thermal conductivity</b>	(ISO 8302)	0,3 W/mK
<b>linear expansion coefficient</b>	(VDE 0304/2)	10-20 $10^{-6} K^{-1}$
<b>Max working temperature</b>	(ISO 11357-2)	180°C
<b>Insulating class</b>	(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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