

## M37

## TUBES

<b>Composite:</b>	glass fabric – epoxy resin	
<b>Color:</b>	white green	
<b>Standards:</b>	IEC 61212 DIN 7735 NEMA LI1	EPGC23 -- FR4

### CHARACTERISTICS AND APPLICATIONS

Composite for mechanical and electrical applications in medium-high voltage constructions. Flame retardant grade , flammability class V0 (UL94).

### Mechanical properties

<b>Flexural strenght</b>	(ISO 178)	360 MPa
<b>Compressive strenght</b>	(ISO 604)	170 MPa
<b>Cohesion between layers</b>	(EN 61212-2)	450 MPa

### Electrical Properties

<b>Electrical strength at 90°C,in oil, perpendicular to lamination</b>	(IEC 243-1)	10 kV/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)	5,2
<b>Dissipation factor at 48-62 Hz</b>	(IEC 250)	0,04

## Physical and thermal properties

<b>Density</b>	(ISO 1183)	1,8 gr/cc
<b>Water absorption</b>	(ISO 62)	<0.10%
<b>Max working temperature</b>	(ISO 11357-2)	130°C

Tubes have to be cut with diamond wheels of low thickness and a rotational speed of about 3000 rpm.

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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