

## M36

## TUBES

<b>Composite:</b>	glass fabric – modified epoxy resin	
<b>Color:</b>	Red Brown	
<b>Standards:</b>	IEC 61212 DIN 7735 NEMA LI1	EPGC22/EPGC23 -- FR5

### CHARACTERISTICS AND APPLICATIONS

Composite for mechanical and electrical applications in medium-high voltage constructions, even at high temperatures. Anti-tracking and Flame-retardant grade, halogen-free, flammability class V0 (UL94).

### Mechanical properties

<b>Flexural strength</b>	(ISO 178)	340 MPa
<b>Compressive strength</b>	(ISO 604)	170 MPa
<b>Cohesion between layers</b>	(EN 61212-2)	400 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
<b>Comparative tracking index</b>	(IEC 60112)	>600 V
<b>Dry arc resistance</b>	(ASTM D495)	>180 sec.

## Physical and thermal properties

<b>Density</b>	(ISO 1183)	1,8 gr/cc
<b>Water absorption</b>	(ISO 62)	<0.15%
<b>Max working temperature</b>	(ISO 11357-2)	180°C

**All the details on fire resistance properties can be found in EN 45545-2 and UNI CEI 1170-3 Certificates.**

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 materials 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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