ISOVAL® TU 22

Composition

ISOVAL® TU 22 is a round rolled epoxy-glasfabric tube of the type EP GC 22 according IEC 61212 and Hgw 2375,4 according DIN 7735. It is produced using the temperature resistant resin of ISOVAL 11.

Application

ISOVAL® TU 22 is used if very good mechanical properties even at elevated temperatures are required. It is distinguished by a high thermal endurance, excellent electrical properties even at high humidity and shows very good resistance against water and chemical substances.

ISOVOLTA AG
A-2355 Wiener Neudorf
Tel: +43/5/9595-9407
Fax: +43/5/9595-9403
rigid-laminates@isovolta.com
www.isovolta.com
A Constantia INDUSTRIES Company

Technical Data

Properties	Testmethod	Unit	Min. Value
Density	ISO 1183/A	g/cm³	approx. 1.7
Flexural strength perpendicular to laminations at 23°C	ISO 178	MPa	300
Flexural strength perpendicular to laminations at 150°C	ISO 178	MPa	150
Compressive strength axial	ISO 604	MPa	175
Cohesion between layers	IEC 61212	MPa	200
Breakdown voltage (1' proof test) at 90°C in oil parallel to laminations[1)]	IEC243	kV	40
Electric strength (1' proof test) at 90°C in oil perpendicular to laminations (thickness 3,0 mm) [1)]	IEC243	kV/mm	7.7
Insulation resistance after immersion in water	IEC 167	Ω	10^9
Thermal endurance	IEC 216	T.I.	180
Water absorption	ISO 62 / 1	mg/cm²	≤1.5

[1)] after conditioning 24h/23°C/50 % rel. humidity

Availability

inner diameter	length
8 – 12,5 mm	500 mm
10 – 16 mm	1000 mm
16,5 – 400 mm	1000 and 1200 mm

Wall thickness: minimum wall thickness depending on inner diameter, max. 15 mm but not more than 0,7 times the inner diameter. If this value is exceeded cracks between the layers can occur.

Tolerances: according IEC 61212

Surface: as produced or ground

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