

ISOVAL® TU 22

ISOVAL® TU 22 is in accordance to the following international standard:
IEC 61212 EP GC 22

Composition

ISOVAL® TU 22 is a round rolled epoxy glass fabric tube.

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.

Availability

Dimensions:

Inner diameter, mm	Min wall thickness, mm	Length, mm +/- 2.5mm
3 - 5	0.5	1220
5.1 - 14.9	0.75	1220
15 - 98.4	0.75	1220 and 1600
98.5 - 1250	1.5	1220 and 1600

Outer diameter \leq 1250 mm

Wall thickness: Max. 12 mm or \leq 25% of the inner diameter free of stress cracks
if these values are exceeded stress cracks can occur
on request the stress cracks can be eliminated for ID \geq 15mm

Tolerances: according IEC 61212

Surface: as produced or ground

Colour: light green

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

ISOVAL[®] TU 22

TECHNICAL DATA

Values in the table are mean values of our production. Values according to the standard IEC 61212 are confirmed.

Properties	Norm	Unit	Value
Density (23°C/50%RH)	ISO 1183-A	g/cm ³	approx. 1.8
Flexural strength perpendicular to laminations at 23°C (ID > 100 mm)	ISO 178	MPa	min. 300
Flexural strength perpendicular to laminations at 150°C (ID > 100 mm)	ISO 178	MPa	min. 150
Compressive strength axial	IEC 604	MPa	min. 175
Cohesion between layers (ID < 100 mm)	IEC 61212-2 4.3	MPa	min. 200
Breakdown voltage parallel to laminations (thickness 3.0 mm) 24h/23°C/50%RH + 1h/Oil 90°C	IEC 60243-1	kV	60
Electric strength perpendicular to laminations (thickness 3.0 mm) 24h/23°C/50%RH + 1h/Oil 90°C	IEC 60243-1	kV/mm	11
Insulation resistance after immersion in water ID > 8 mm and/or OD > 10 mm	IEC 61212	Ω	10 ⁹
Thermal endurance	IEC 60216	T.I.	180
Water absorption	ISO 62-1	mg/cm ²	max. 1.5

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