

3640 Epoxy Phenolic Glass Tube

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1. GENERAL INFORMATION

3640 consists of glass fabric impregnated with epoxy phenolic resin, rolled and pressed and formed under heat and pressure. It features compact forming, low water absorption, high mechanical, thermal and electrical insulation performance.

This product is intended for insulation structural parts in electric equipment. It can be used in damp environment and transformer oil.

2. TECHNICAL VALUES

Inner Diameter			From 6 to 25mm	≥26mm
Density	[g/cm ³]		≥1,40	≥1,40
Flexural Strength	[MPa]		≥180	≥180
Compressive Strength (axial direction)	[MPa]		≥70	≥70
Shear Strength	[MPa]		≥1x10 ¹⁰	≥1x10 ¹⁰
Volume Resistivity	Normal Conditions	[Ω*m]	≥1x10 ¹⁰	≥1x10 ¹⁰
	24 hours in Water	[Ω*m]	≥1x10 ⁸	≥1x10 ⁸
Insulation Resistance (parallel to laminations)	Normal Conditions	[Ω]	≥1x10 ¹⁰	≥1x10 ¹⁰
	24 hours in Water	[Ω]	≥1x10 ⁷	≥1x10 ⁷
Dissipation Factor	50Hz	-	≤0,030	≤0,030
Withstand voltage at R.T., 5 minutes in transformer oil (parallel to laminations)		[kV]	≥25	≥25
Surface Withstand Voltage after immersion, 1 minute in :		[kV]	≥12	≥12

Wall Thickness (mm)			ID from 6 to 25mm	ID ≥26mm
Withstand Voltage @ 90±2°C in transformer oil for 5 minutes (perpendicular to wall thickness)	1,5	[kV]	≥7	≥12
	2,0	[kV]	≥10	≥14
	2,5	[kV]	≥13	≥16
	3,0	[kV]	≥15	≥18

3. STORAGE AND AVAILABILITY

- Shelf life is 18 months from EXW date in original packing and under normal conditions (room temperature, 50% relative humidity)
- Standard widths are 420, 820 and 920mm
- Available on thicknesses from 1,5mm upwards
- Other widths available on request

4. APPEARANCE

Smooth surface, no bubbles, no wrinkles, no cracks, no scratches and overheating traces. Slight wrinkles on the inner wall are allowed. Both ends are evenly trimmed. Slight cracks at the end surface are allowed when the wall is thicker than 13mm.

5. NOTES

All statements, technical information, and recommendations contained in this document are based on tests or experience that we believe are reliable. However, many factors beyond our control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes. Tolerances on thickness and area weight are +/- 15% if not stated differently.

All questions of warranty and liability relating to our products are governed by the terms of the respective sale subject, where applicable, to the prevailing law.

6. VERSIONING

Rev. 2 dated 29/07/2026