

Technical Data Sheet

Produced from Epoxy Glass Laminate, our Epoxy Rod is a great choice for applications that require a high strength, dielectric material. These rods are available in a large selection of sizes and can be accurately machined or cut.

Our Epoxy Glass Rod is classified as a Class B electrical insulation material which means it can withstand continuous temperatures of 130°C.

Good Mechanical Properties.

Epoxy Glass Laminate is made by combining layer upon layer of fibreglass cloth with an epoxy resin. Once the resin sets, the result is a solid, rigid, strong material. Our Epoxy Glass Rod exhibits all these characteristics.

These high strength solid bars have a flexural strength of 2,461 kilograms of force per square centimetre and a minimum tensile strength of 200 kgf / cm². It can be accurately machined though we do suggest the use of diamond carbide tipped tools for the best results.

Dielectric Properties.

Our Epoxy Rods are most commonly used for making electrical insulators and parts where dielectric strength is required. In these applications, the good electrical properties of the material are critically important.

Swift's Epoxy Rod has a breakdown voltage of 15 kV in transformer oil at 20° (parallel to laminate).

Applications

- The manufacture of electrical bushings.
- Building structural parts for electronic devices.
- Creating insulating blocks.
- For making machine parts and gears.
- As a rigid insulation material in transformers and electric motors.

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Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Technical Details

Property	Value
Colour	Yellow (Natural Epoxy)
Flexural Strength	2,461 kgf / cm ² (min.)
Tensile Strength	200 kgf / cm ² (min.)
Compressive Strength	2,461 kgf / cm ² (min.)
Density	1.7 gm/cm ³
Temperature Class	Class B
Maximum Operating Temperature	130°C (Continuous)
Short-Term Operating Temperature	150°C – 160°C.
Breakdown Voltage in Transformer Oil @ 20°C (±5°C, Parallel to Laminate)	15 kV
Water Absorption	
6mm Ø	0.75% (max.)
13mm Ø	0.5% (max.)
25mm Ø	0.5% (max.)
>25mm Ø	0.5% (max.)

Available Sizes

Epoxy Rod is available from Swift Supplies in a large range of diameters. Most of our standard sizes are listed below though others are sometimes held in stock and can usually be arranged upon request.

Standard lengths are 490mm & 980mm. (These are minimum lengths; actual supplied product may be a little longer).

Standard Sizes

- | | | |
|---|---|--|
| <ul style="list-style-type: none"> • 8mm Ø • 10 mm Ø • 12 mm Ø • 13 mm Ø • 16 mm Ø • 18 mm Ø • 20 mm Ø | <ul style="list-style-type: none"> • 22 mm Ø • 24 mm Ø • 25 mm Ø • 32 mm Ø • 40 mm Ø • 50 mm Ø • 65 mm Ø | <ul style="list-style-type: none"> • 70 mm Ø • 80 mm Ø • 108 mm Ø • 110 mm Ø • 130 mm Ø |
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