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## Lectraglass EP Product Data Sheet

### Material Details

<b>Grade:</b>	Lectraglass EP. (Type: Glass Fibre - SRBG)
<b>Description:</b>	Epoxy Glass. Good electrical insulation, high corrosion resistance and good mechanical properties.
<b>Comments:</b>	Used as Industry Standard worldwide for overhead line handling and safety earth poles at voltages up to 33kV. The wide property range of the material also places it in common use for non-electrical applications such as marine stern gear, bolt sleeves and cryogenic containers for liquid helium. Other industries sectors and applications: General electrical and engineering, battery/bearing housings, Instrument measuring devices and other high voltage applications.
<b>Specifications:</b>	BSEN61212-3-1-EPGC21 (Which supersedes BS6128 EPGC81). The closest NEMA equivalent to this specification is G10.
<b>Body Colour:</b>	green / yellow
<b>Standard Finish:</b>	Ground (unless otherwise stated)
<b>Size:</b>	1220 mm trimmed (max) Thickness Range: Min ID 6.4mm, Min wall 1.0mm(Ground) 2.0mm(as produced). †

### General Properties

Property	Unit of measure	Typical Value
Density	g/cm <sup>3</sup>	1.9
Water Absorption	mg	0.2

‡ Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

### Electrical Properties

Property	Unit of measure	Typical Value
IR (24hrs Water Immersed)	G □	170
Breakdown voltage (parallel to laminations, Step by Step)	kV/mm	11
Electric strength (perpendicular to laminations, Step by Step)	kV	55

## Mechanical Properties

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Property	Unit of measure	Typical Value
Cohesion	MPa	500
Axial Compressive	MPa	240

## Thermal Properties

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Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	130

## Notes

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- Datasheet Issue No. 1

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user's responsibility to ensure suitability for the intended end use.

Source: <https://www.attwater.com/products/lectraglass-ep/>