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FR4 rod Product Data Sheet

Material Details

Grade:	FR4 rod. (Type: Rods)
Description:	Epoxy Glass. Epoxy glass moulded rod (Flame Retardant) (Not manufactured by The Attwater Group)
Comments:	FR4 is a moulded rod manufactured from high quality woven E glass fabric which is bonded with a flame retardant epoxy resin system. Rods are available moulded, ground or machined to size required in diameters of up to 100mm. Un-ground rods; Rods supplied as moulded are ideal if you intend to turn finished components. In this condition the rods exhibit some mould lines and can be slightly eccentric. We recommend a selection of rod size that is slightly larger diameter than the required finish size I.e. 10% larger. Whilst the values contained within this datasheet are believed to be indicative of those of the product, batch testing is not carried out. Certification of values may be available subject to individual testing.
Body Colour:	Green
Standard Finish:	Moulded
Size:	Thickness Range: 6-100.0 †

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	1.8
Water Absorption	mg	0.4
Flammability Category¥	-	FV0

¥ 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 Ω	100

Mechanical Properties

Property	Unit of measure	Typical Value

Flexural Strength	MPa	250 min

Thermal Properties

Property	Unit of measure	Typical Value

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/fr4-rod/