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G10 QDX Product Data Sheet

Material Details

Grade:	G10 QDX. (Type: Glass Based Laminates - SRBG)
Description:	Epoxy Glass. Epoxy glass laminate with multi-axis fibre reinforcement
Comments:	Specialist grade epoxy glass laminate. Temperature class H (180 C) epoxy resin, with a quadriaxial reinforcement which gives better performance where the orientation of mechanical loads varies significantly.
Body Colour:	Pale Green
Cover Colour:	Pale Green
Standard Finish:	Satin/Glossy
Size:	Enquire Thickness Range: Enquire †

Typical Applications

- Mechanical Applications
- High Voltage Insulation
- High Temperature Components
- Cryogenic Resistance Components

General Properties

Property	Unit of measure	Typical Value
Density	g/cm3	2.0
Water Absorption (thickness 10mm)	mg	30

¥ 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
Electric Strength	kV/mm	13
Breakdown Voltage	kV	45

Property	Unit of measure	Typical Value
Tracking Index	V	180

Mechanical Properties

Property	Unit of measure	Typical Value
Flexural Strength	MPa	340 min
Flexural Strength at 150°C	MPa	170 min
Flexural Modulus (approx.)	GPa	17
Compressive Strength - perpendicular to laminations	MPa	550
Compressive Strength - parallel to laminations	MPa	250
Tensile Strength	MPa	202
Impact Strength (notched Charpy)	kJ/m2	50

Thermal Properties

Property	Unit of measure	Typical Value
Thermal Rating Continuous	°C	180

Notes

- 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/qdx/>