GRP PROPERTY DATA

ADDITIONAL PROPERTY DATA

Property	Units	Typical Value
Density	g/cm^3	1.9
Barcol Hardness		50
Water Absorption	%	1.0 max
Electrical Strength	kV / mm	5 - 10
Coeff. of Thermal Expansion	deg C x 10^{-6}	6 - 10
Coeff. of Thermal Conductivity	W / m deg C	0.3 - 0.35

Poisson's Ratio from published literature

Lengthwise 0.31 - .035

Crosswise 0.12

Compressive Strength

Compression is very difficult to measure but tests at the NPL have shown that the pin bearing strength is very close to the compression strength is 50MPa – the minimum figure in BSEN13706 for the pin bearing strength. Actual test results are higher but better to use this figure.

Shear Modulus

These are calculated figures from the BSEN13706 minimum modulus figures for the grade E23 type and the Poissons ratio given above.

longitudinal direction 8.7 GPa

transverse 2.25 GPa

Glass Fibre Content

61 - 63% wt.

Resin content is 38 - 42% by weight, the rest is pigment and other additives.

Density

1.9g / cc

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