

Estimated Mechanical Properties (Longitudinal) of GRP Tubes (Over 31.8 mm)

Cross directional E Glass Fillers

Tubes produced over 31.8 mm are manufactured using a mixture of woven, random mat & rovings. This improves transverse properties with a reduction in longitudinal properties.

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|----------------------|----------------------|
| Flexural Strength | 450MN/m ² |
| Flexural Modulus | 24GN/m ² |
| Compressive Strength | 150MN/m ² |

Accuracy

Small Rod Tolerance up to 6mm

| | | | |
|-----------|-------------|-------------|-------------|
| Polyester | +0.05/-0.07 | Vinyl Ester | +0.05/-0.15 |
|-----------|-------------|-------------|-------------|

| | |
|--------------------------------|------------|
| Calorific content of 811 resin | 28mj/kg |
| 30% glass | 19 mj/kg |
| 55%-60% glass | 10-15mj/kg |

Available Resin Types

| | |
|-------------|---------------------------------|
| Polyester | Orthothalic Isothalic Resins |
| Vinyl Ester | |
| Acrylic | Modar (6853) |

