



Our “armouring” GRP used for its lightweight, dielectric and resistant properties to protect your cables against rodents and bullets. Our most popular dimensions are 3,40*0,78 & 4,00*1,00mm and we may also manufacture dimensions in accordance with your needs. We are specialized in the specific rewinding of flat GRP with contiguous coils and we have rewinding equipments in our warehouse to package specific lengths on specific drums in accordance with your needs and machinery => monthly capacity 10 000km

[MATERIAL SAFETY DATA SHEET](#)[ISO 9001 CERTIFICATE](#)

Flat GRP Rod (3,40*0,78mm) Characteristics

| ITEM | UNIT | SPECIFICATION | TEST METHOD |
|----------------------------|------------------|------------------------|-------------|
| Appearance | Shall be Good | Good | - |
| Width | mm | $3,40 \pm 0,05$ | Micrometer |
| Thickness | mm | $0,78 \pm 0,03$ | Micrometer |
| Density | g/mm^2 | 1.9 ~ 2.2 | ASTM D 792 |
| Tensile Strength | Kg/mm^2 | Min. 130 | ASTM D 3916 |
| Tensile Modulus | Kg/mm^2 | Min. 5000 | ASTM D 3916 |
| Elongation at Break | % | Min 2.5 | ASTM D 3916 |
| Coef. of Thermal Expansion | /°C | Nom. $7 \cdot 10^{-6}$ | ASTM D 696 |
| Glass Content | % | Min. 80 | - |

| ITEM | UNIT | SPECIFICATION | TEST METHOD |
|--|------|----------------|-------------|
| Minimum Bending Radius at 20°C (5 days) | - | 25 X Thickness | - |
| Minimum Bending Radius at 100°C (5 days) | - | 50 X Thickness | - |
| Minimum Bending Radius at 80°C in water (5 days) | - | 50 X Thickness | - |

Flat GRP Rod (4,00*1,00mm) Characteristics

| ITEM | UNIT | SPECIFICATION | TEST METHOD |
|--|--------------------|-------------------------|-------------|
| Appearance | Shall be Good | Good | - |
| Width | mm | 4,0 ± 0,05 | Micrometer |
| Thickness | mm | 1,0 ± 0,05 | Micrometer |
| Density | g/mm ² | 1.9 ~ 2.2 | ASTM D 792 |
| Tensile Strength | Kg/mm ² | Min. 130 | ASTM D 3916 |
| Tensile Modulus | Kg/mm ² | Min. 5000 | ASTM D 3916 |
| Elongation at Break | % | Min 2.5 | ASTM D 3916 |
| Coef. of Thermal Expansion | /°C | Nom. 7*10 ⁻⁶ | ASTM D 696 |
| Glass Content | % | Min. 80 | - |
| Minimum Bending Radius at 20°C (5 days) | - | 25 X Thickness | - |
| Minimum Bending Radius at 100°C (5 days) | - | 50 X Thickness | - |
| Minimum Bending Radius at 80°C in water (5 days) | - | 50 X Thickness | - |