

## **GFRP (NMSM-Series)**

Glass Fibre Reinforced Plastic

### **Standard Sizes**

Product Code	Diameter (mm)	Diameter Tolerance ± (mm)	Min. Pulling Force @ 0.5% Elongation (N)	Min. Pulling Force @ 1% Elongation (N)	Weight (kg/km)
NMSM/C 025	0.250	0.010	10	20	0.10
NMSM/C 030	0.300	0.015	14	28	0.14
NMSM/C 040	0.400	0.020	25	50	0.26
NMSM/C 050	0.500	0.025	40	80	0.40

Other sizes and shapes on request.

### **Physical & Mechanical Properties**

Property	Value
Density	2.1 g/cm <sup>3</sup>
Glass Content	80 ±2.5 % (wt.)
Elongation at Break	3.0 %
Young's Modulus	≈ 50000 N/mm <sup>2</sup>
Ultimate Tensile Strength	≈ 1300 N/mm <sup>2</sup>
Thermal Expansion Coefficient	5.9 x 10 <sup>-6</sup> /°C
Water Absorption	≤ 0.1 %
Bend Radius in Air (22 °C, 1 week)	25 x dia.
Bend Radius in Air (100 °C, 1 week)	50 x dia.
Bend Radius in Water (80 °C, 1 week)	50 x dia.

### **GFRP Upcoating**

Special developed UV resin matrix to upcoating the GFRP with different modulus from very soft to extreme hard as alternative to the conventional sheathing jacket, available also as high temperature up to 200 °C or fire retardant (in different colour shades) for special applications. More information on request.