



GLASS FIBRE

Type of Glass Fibre	AR Glass fibres
Filament Diameter μm (micrometer) (+10%)	13,19
Filament Length	6,12 mm
Filaments per kg.	200 Million
Zirconia Content	17%
Moisture Content	<0.5% Max
Density	2.7 g/cm ³
Tensile strength	1700 mpa
Modulus Elasticity	72 GPA – 10X106 PSI
Incombustability	Yes
Resistance to Acid	Yes
Softening point	860oC
Electrical Conductivity	Very Low
Thermal Expansion	5.4 ($\mu\text{m}/\text{m}^{\circ}\text{C}$)
Chemical Resistance	Very High
Strain to Failure	2%

Raw Material	Density (g/cm ³)	Elastic Modulus (GPa)	Tensile Strength (MPa)
Concrete	2.4	30-40	3-4
Glass fibre	2.7	7.2	1700
Steel	7.8	210	500-1100
Polypropylene	0.9	1.5-9.5	100-500

