



TXON GRP REBARS

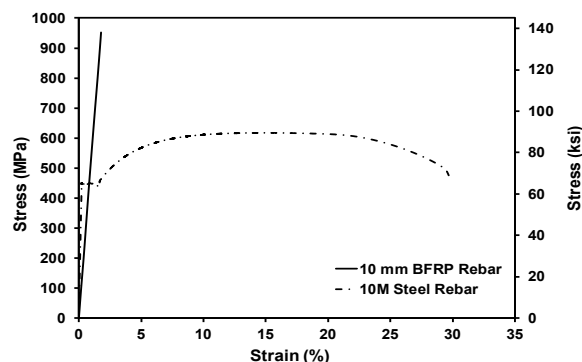
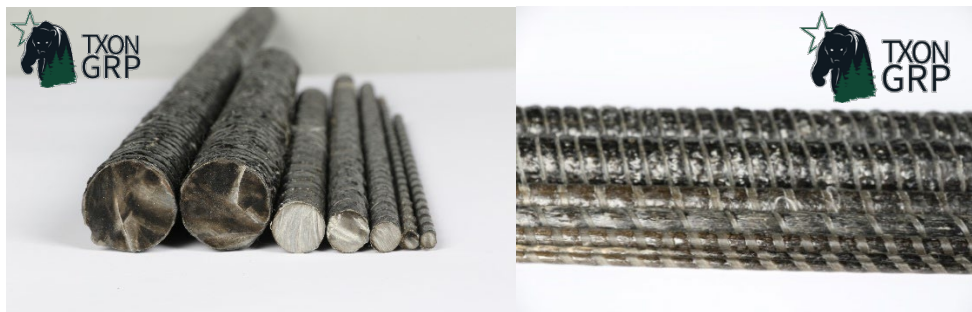
Bar Size (mm)	Ultimate Stress (MPa)	Ultimate Strain (%)	Modulus of Elasticity (GPa)
10	943	1.67	54
16	986	1.96	51

Mechanical Properties	Reinforcing Steel	CFRP	GFRP	TXON GRP (BFRP)
Mass Density (kg/m for 10 mm)	0.618	0.112	0.159	0.156
Elastic Modulus (GPa)	200	150 - 175	30 - 50	50 - 55
Tensile Strength (MPa)	400-500	1600 - 2400	500 - 1000	940 - 1000
Yield Strain (%)	0.2	-	-	-
Ultimate Strain (%)	≈ 30	1 - 1.5	1.5 - 2.0	1.5 - 2.0

TXON GRP rebars are non-corrosive, extremely lightweight, and have a thermal expansion rate equivalent to concrete. They are also 100% recyclable, non-conductive, inert, hypo-allergenic, and non-moisture wicking.

The rebars are ¼ of the weight of steel resulting in reduced labour, shipping, and material handling costs. When assembled into cages or grids, the lightweight material can more easily and quickly be put into place than steel; providing reduced on-site costs. The non-corrosive property of TXON GRP products eliminate the need for a corrosion cap required when using steel, resulting in further cost savings.

MEDA Limited and the University of Windsor have tested the products extensively, with the results shown above. The products have been used successfully in the field for the rehabilitation of Municipal structures, wingwalls and roadways.



LIGHTER. TOUGHER. BETTER. GREEN.