



## TXON GRP FABRICS

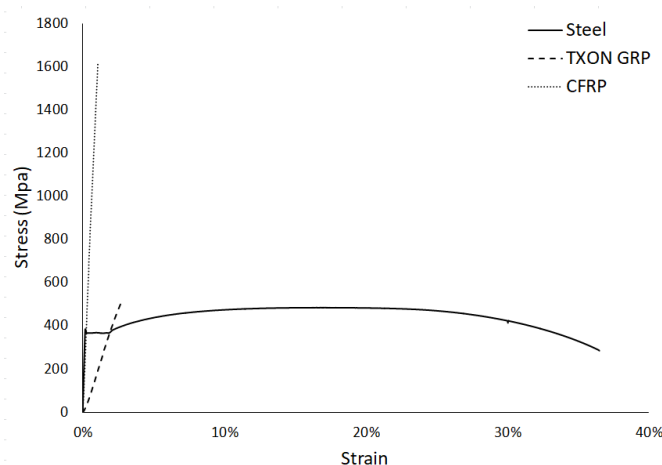
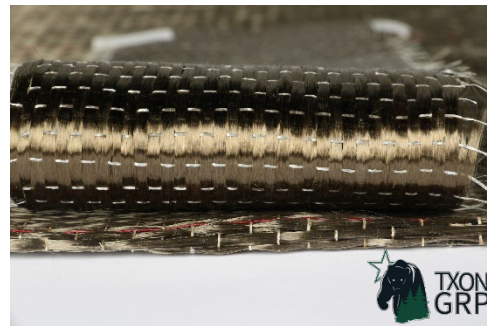
Fabric Weight (g/m <sup>2</sup> )	Ultimate Stress (MPa)	Ultimate Strain (%)	Modulus of Elasticity (GPa)
200	459	2.20	23.10

Mechanical Properties	Reinforcing Steel	CFRP	TXON GRP (BFRP)
Elastic Modulus (GPa)	200	150 - 175	20 - 25
Tensile Strength (MPa)	400-500	1300 - 1500	450 - 550
Yield Strain (%)	0.2	-	-
Ultimate Strain (%)	≈30	0.8 - 1.0	2.0 - 2.5

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

The material properties of the fabrics have been tested extensively at the University of Windsor with the results shown above. Laboratory tests have successfully rehabilitated flexural deficient steel and concrete girders.

In the field TXON GRP fabrics were used to rehabilitate the flexural capacity of severely corroded girders on a bridge to the level of an uncorroded girder saving the Municipality from a more expensive replacement or new build. (<https://windsor.ctvnews.ca/revolutionary-construction-material-being-used-in-merrick-creek-bridge-rehab-1.3161661>).



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