



MST-BAR® Grade III GFRP

IMPERIAL		#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
METRIC		6	10	13	16	20	22	25	29	32	36
Minimum Tensile Load	kN	33	74	132	202	285	390	507	650	819	1000
	lbf	7419	16636	29675	45411	64070	87675	112180	146126	184118	224810
Cross Sectional Area	mm ²	32	100	132	201	300	387	507	645	819	1007
Weight	kg/m	0.12	0.22	0.35	0.5	0.7	0.9	1.22	1.4	1.72	2.15

Guaranteed Tensile Strength	>1000 MPa >145 Ksi
Young's Modulus , E	>60GPa >8702KSI
Ultimate Strain , ε _{fu}	>1.7%
Transverse Shear Strength , τ	>220 MPa 31.9 ksi
Bond Strength to Concrete	20 MPa Minimum 2900 Psi Minimum

Strength of Bend (Straight Portion)	>1000 MPa
Strength of Bend (Bend Portion with Minimum Radius Bend : 4x Diameter of Bar)	>600 MPa
Young's Modulus , E (Bend Bar)	50 GPa
Glass Transition Temperature, T _g °	125C°

The #1 Solution to Concrete Reinforcement

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MST-BAR® Manufactured by MST Rebar Inc.