

FLAT GRP ROD

TECHNICAL DATA SHEET

S. No.	PARAMFTERS	UNITS	SPECIFICATIONS	TEST MERHOD
1	Surface	-	Smooth, Free from cracks	Visual
2	Thickness(T)	mm	$T \pm 0.10$	Micro Meter
3	Width(W)	mm	$W \pm 0.10$	Micro Meter
4	Density	gm/cm3	1.9 to 2.2	ASTM D-792
5	Minimum Bend Diameter @ 25°C	mm	i) $\geq 25T$ for ≤ 3.5 mm FRP rod ii) $\geq 30T$ for > 3.5 mm FRP rod	TEC 89010:2021 Section-II
6	Tensile Strength at break	Kg/mm2	≥ 120	ASTMD 3916
7	Tensile Modulus	Kg/mm2	≥ 4200	ASTMD 3916 / D638
8	Elongation at break	%	$\geq 4\%$	ASTMD 3916
9	Heat Stress	-	No decomposition or delamination	@ 80°C for 24 Hours, 50xT
10	Water Resistance	-	No decomposition or delamination	@80°C for 5 Days, 80xT