

SUPERSTRONG FRP

TECHNICAL DATA SHEET

S. No.	PARAMFTERS	UNITS	SPECIFICATIONS	TEST MERHOD
1	Surface	-	Smooth, Free from cracks	Visual
2	Diameter (Uncoated Rod)	mm	$d \pm 0.05$	Micrometer
3	Ovality	mm	$\square 0.05$	Micrometer
4	Glass Content	%	82 ± 3	By Weight
5	Outgassing	%	< 1	By Weight
6	Density	gm/cm ³	1.7 to 2.1	ASTM D792
7	Min. Bending Diameter at 25°C	mm	i) $\square 25D$ for $\square 3.5$ mm FRP rod ii) $\square 30D$ for > 3.5 mm FRP rod	TEC 89010:2021 Section-II
8	Tensile Strength	Kg/mm ²	$\square 140$	ASTMD 3916
9	Tensile Modulus	Kg/mm ²	$\square 5000$	ASTMD 3916
10	Elongation at break	%	2.5 - 4.0	ASTMD 3916
11	Flexural Strength	Kg/mm ²	$\square 70$	ASTM D 790
12	Flexural Modulus	Kg/mm ²	$\square 5000$	ASTM D 3916
13	Thermal Resistance	mm	No decomposition or delamination	@100°C for 5 Days, 100xD
14	Water Resistance	mm		@80°C for 5 Days, 80xD
15	Humidity Resistance	mm	No decomposition or delamination	@85°C/85RH for 14 Days
16	Water Absorption	%	$\square 0.1$	ASTMD 570
17	Heat Stress @ 80°C For 24 hours, 50xD	mm	No decomposition or delamination	TEC 89010:2021 Section-II