

SUPERSTRONG FLAT FRP

TECHNICAL DATA SHEET

S. No.	PARAMFTERS	UNITS	SPECIFICATIONS	TEST MERHOD
1	Surface	-	Smooth, Free from cracks	Vishal
2	Diameter (Uncoated Rod)	mm	d 10.05	Micrometer
3	Ovality	mm	< 0.05	Micrometer
4	Glass Content	%	8213	By Weight
5	Outgassing	%	<1	By Weight
6	Density	gm/cm3	1.7 to 2.1	ASTM D792
7	Min. Bending Diameter at 25 C	mm	I) <25D for <3.5mm FRP rod II) <30D for <3.5mm FRP rod	TEC 890.10 2021 Section-II
8	Tensile Strength	kg/mm2	>140	ASTMD 3916
9	Tensile Modulus	kg/mm2	>5000	ASTM D 3916
10	Elongation at break	%	2.5.40	ASTM D 3916
11	Flexural Strength	kg/mm2	>70	ASTM D 790
12	Flexural Modulus	kg/mm2	>5000	ASTM D 3916
13	Thermal Resistance	mm	No decomposition	@100C for 5 Days 1000XF
14	Water Resistance	mm	No decomposition	@80C for 5 Days 80xD
15	Humidity Resistance	mm	No decomposition	@85C/85RH for 14 Days
16	Water Absorption	%	<0.1	ASTM D 570
17	Heat Stress@80C For 24 Hours 50 xD	mm	No decomposition	TEC 89010.2021 Section-II