



# **SATYAM COMPOSITES PVT. LTD.**

**505/6, GIDC, MAKARPURA INDUSTRIAL ESTATE, VADODARA – 390010,  
GUJARAT, INDIA.**

**MANUFACTURERS OF: FRP/GRP CABLE TRAYS, GRATINGS, TREFOIL CLAMPS &  
OTHER FRP PULTRUDED SECTIONS**

<b>FRP Technical Data Sheet</b>			
<b>Sl. No.</b>	<b>Parameter</b>	<b>Unit</b>	<b>Acceptable Value Tolerance</b>
1	Thickness	mm	(±) 0.15 mm as per IS 12866 : 1989
2	Length	%	0.5 % of length as per IS 12866 : 1989
3	Glass Content	% by Mass	More Than 30%
4	Water Absorption	% by Mass	Less than 0.30%
5	Specific Gravity		1.45
6	Profile	As per Drawing	Tolerances as per profile drawing
7	<b>Light Transmission</b>	<b>%</b>	<b>54</b>
8	<b>Warranty</b>		<b>5 years for light transmission (remain over 80% of its original value)</b>
9	Barcol Hardness	%	Increase not more than 30% of its initial value
10	Bolt Shear Mean Load at Which First Tear Appears	N	≥ 375 N
11	Bolt Shear Minimum Individual Value of Load at Which First Tear Appears	N	≥ 250 N
12	Weight / SQM	Kg/SQM	4.88 Kg/SQM
13	UV Transmission	%	0.30%
14	Wind Force	N/mm <sup>2</sup>	220 N/mm <sup>2</sup>
15	Tensile Strength	ASTM D 638-91	Minimum value 500 kg/cm <sup>2</sup>
16	Flexural Strength	ASTM D 790 -92	Minimum value 500 kg/cm <sup>2</sup>
17	Compressive Strength	ASTM D 695-91	Minimum value 800 kg/cm <sup>2</sup>
18	Die Electric Strength	ASTM D 149-97a	14 kv/mm
19	Izod Impact	ASTM D 256	Minimum 75 KJ/mm <sup>2</sup>