



UV-FLAT FRP

S.No.	Properties	Unit	Specifications	Test Method
1	Appearance	--	Smooth, Free from harmful cracks	Visual
2	Physical Dimension of Rod	mm	Thickness + 0.10	Micrometer
3	Physical Dimension of Rod	mm	Width $\pm$ 0.1	Micrometer
4	Density	gm/cm ²	2.10 $\pm$ 0.2	By Weight
5	Tensile Strength	Mpa	$\geq$ 1200	ASTMD 3916
6	Tensile Modulus	Gpa	$\geq$ 50	ASTMD 3916
7	Elongation at Break	%	2.5 to 4.0	ASTMD 3916
8	Flexural Strength	Mpa	$\geq$ 600	ASTMD 790
9	Flexural Modulus	Gpa	$\geq$ 50	ASTMD 790
10	Min. Bending Diameter at 25°C	mm	30xD	Mandrel Bend
11	Water Absorption After 24 Hrs	%	<0.1	ASTMD 570
12	Min. Bending Diameter	mm	50 x Diameter of Rod	ASTM D 696

CONTACT US



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SHRESHT COMPOSITES INC.

We are one of North America's largest manufacturers of GRP rods, with world-class manufacturing facilities near the Texas border. Our commitment to Quality and on time Delivery is unwavering, and we have established warehouses strategically located in Pharr, Texas, and Charleston, South Carolina. Notably, we have successfully supplied several million kilometers of GRP rods to some of the leading manufacturers of Optical Fiber Cables in the United States.

Our dedication to innovation, superior quality, and reliability positions us as a trusted partner in the industry. We look forward to continuing to serve and contribute to the success of optical fiber cable manufacturers across the USA.





FRP rods/Water blocking FRP rods/Rough FRP rods
FRP rods are non-metallic, dielectric strength member made from glass fibres. It is light weight & possess very high tensile strength with good flexibility which makes it a perfect replacement for bulky steel wires. It comes with different surface textures for different cable designs & applications.

Product Specification

S.No.	Properties	Unit	Specifications	Test Method
1	Appearance	--	Smooth, Free from harmful cracks	Visual
2	Glass Content	%	UV 78 ±3, Thermal 80±3	By Weight
3	Density	gm/cc	2.1 ± 0.2%	By Weight
4	Diameter Stability	mm	± 0.05	Micrometer
5	Ovality	mm	< 0.05	Micrometer
6	Tensile Strength	Gpa	≥ 1.4 Gpa	ASTMD 3916
7	Tensile Modulus	Mpa	≥50000	ASTMD 3916
8	Elongation at Break	%	≥ 2.5	ASTMD 3916
9	Min. Bending Diameter	mm	30 x Daimeter of Rod	Mandrel Bend
10	Splices	--	None	--
11	Min. Bending Diameter	mm	50 x Daimeter of Rod	ASTMD 696
12	EAA Coating Thickness (As per Customer Requirement)	microns	40 ± 20	Micrometer
13	Length	kms	As per Customer Requirement	Counter Meter

ARP Aramid/Kevlar reinforced plastic rods

Aramid rods comes with high flexibility & very high modulus to hold highest levels of stress. This is very much suitable for FTTX setups & available from 0.4 mm to 1.0 mm diameters.

Product Specification

S.No.	Properties	Unit	Specifications	Test Method
1	Appearance	--	Smooth, Free from harmful cracks	Visual
2	Aramid Content	%	68 ± 2	By Weight
3	Diameter Stability	mm	± 0.03	Micrometer
4	Ovality	mm	< 0.03	Micrometer
5	Unit Weight	gm/m	0.25±0.05	By Weight
6	Maxi. Load	N	> 300	ASTMD 3916
7	Tensile Strength	Mpa	≥ 1500	ASTMD 3916
8	Tensile Strength at 1% Elongation	N	> 93	ASTMD 3916
9	Tensile Modulus	Gpa	≥ 49	ASTMD 3916
10	Elongation at Break	%	≥ 2.5	ASTMD 3916
11	Min. Bending Diameter at 25°C	mm	10 mm	Mandrel Bend
12	Moisture Content	%	< 2.0	Oven, 150°C at 30 Min
13	Heat Stress (Min. Bending Radius) at 80°C for 24 hours	mm	50 x Daimeter of Rod	ASTSM D 696
14	EAA Coating Thickness (As per Customer Requirement)	microns	40 ± 20	Micrometer
15	Length	kms	As per Customer Requirement	Counter Meter



EAA & PE coated FRP rods

FRP rods coated with Ethyl Acrylic Acid & Polyethylene coating suitable for providing rods with good adhesion for jacketing process.

Product Specification

S.No.	Properties	Unit	Specifications	Test Method
1	EAA Coating	Microns	20-50	Micrometer
2	PE Coating	mm	0.5-6.5	Micrometer

