Trusted Worldwide

Our products are approved by leading telecom players and utilities, and consistently exported to 🇺🇸 America

Let’s Build the Future of Telecom Together

Strengthen your fiber networks with Shresht advanced FRP and ARP solutions.

CONTACT US

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ADVANCED TELECOM
INFRASTRUCTURE SOLUTIONS

Delivering high-performance FRP and ARP strength members for future-ready telecom networks.

Engineered for Strength. Built for Tomorrow.

About Us

Shresth Composite Inc. is a leading North American manufacturer of FRP and ARP strength members for telecom-grade fibre optic cables. Strategically located just 15 minutes from the US border, our advanced facility ensures faster fulfilment, seamless logistics, and duty-free movement under USMCA compliance.

Built for high-volume, high-precision delivery, our **70,000+ sq. ft. plant** features 2 UV Pultrusion Lines and SCADA-controlled systems, enabling an impressive **1.5 million km** annual capacity.

Backed by a skilled team of **150+ trained operators** and quality professionals, and supported by warehouses in Pharr, Texas, and Charleston, South Carolina, we provide world-class quality, consistency, and reliability across North America.

Telecom-Grade Strength Members

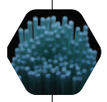
Standard FRP Rod (Uncoated)

- Central strength member for OFC
- High stiffness and tensile strength
- Uniform fiber-resin distribution

EAA Coated FRP Rod

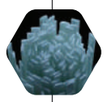
- Peripheral reinforcement for improved PE adhesion
- Flexible & smooth surface finish
- Available in 0.5–4.0 mm diameters

Water-Blocking FRP Rod



- Swells instantly to block water ingress
- Ideal for cables in wet or humid conditions
- Eliminates need for separate swellable yarns

Flat FRP Rod



- Dielectric lateral strength member
- Applied longitudinally or helically
- Excellent rodent protection and tensile strength

Steel Core FRP Rod

- Combines strength of steel with flexibility
- Used in high-tension or compact cable

Up-Jacketed FRP Rod

- Enhanced thermal resistance
- Suitable for environments with fluctuating temperatures

What Sets Us Apart

- ISO-aligned, zero-defect manufacturing
- Custom coatings, diameters & packaging
- Expertise in both central & peripheral reinforcement
- Proven in FTTH, 5G, aerial, and underground cables.
- Quick turnaround & engineering support

Super Strong ARP Rod

Lightweight. Flexible. Reliable.

Non-metallic ARP rods designed as central strength members for FTTH cables—offering high tensile strength, superior bendability, and low weight.

Key Features:

- High strength with flexibility
- EAA coating for handling & adhesion
- Withstands high temperatures
- Available in 0.4–1.0 mm (coated & uncoated)

Applications:

FTTH cable designs | High-temp environments | Central strength in lightweight cables

Technical Data Sheet for UV Coated FRP Rod

Sr no.	Parameters	Units	Specifications	Test Method
1	Diameter (Uncoated Rod)	mm	± 0.05	ASTMD 4565
2	Diameter (Coated Rod)	mm	+0.10 / -0.05	ASTMD 4565
3	EAA Coating thickness (As per Customer Req.)	Microns	40 ± 20	SICPL/QA/UV/WI/02
4	Ovality	mm	< 0.05	ASTMD 4565
5	Glass content	%	78±3	SICPL/QA/UV/WI/05
6	Density	gm/cm³	2.1 ± 0.1	SICPL/QA/UV/WI/10
7	Min. Bending Diameter at 25°C	mm	≤ 30 x Diameter of Rod	SICPL/QA/UV/WI/09
8	Tensile Strength	Mpa	≥ 1400	ASTMD 3916
9	Tensile Modulus	Mpa	≥ 50000	ASTMD 3916
10	Elongation at break	%	2.5 to 4.0	ASTMD 3916
11	Heat Stress (Min. Bending Diameter at 80°C)	mm	50 x Diameter of Rod (24 hrs)	SICPL/QA/UV/WI/03
12	Appearance	-	Smooth, Free from harmful cracks	Visual
13	Length	Kms	As per Customer Requirement	Counter Meter

Technical Data Sheet for UV Coated ARP Rod

Sr no.	Parameters	Units	Specifications	Test Method
1	Diameter (Uncoated Rod)	mm	± 0.03	ASTMD 4565
2	Diameter (Coated Rod)	mm	+0.08 / -0.03	ASTMD 4565
3	EAA Coating thickness (As per Customer Req.)	Microns	30 ± 10	SFPL/QC/WI/07
4	Ovality	mm	< 0.03	ASTMD 4565
5	Aramid content	%	68±2	SFPL/QC/WI/06
6	Min. Bending Radius at 25°C	mm	≤ 16 x Diameter of Rod	Mandrel bend
7	Tensile Strength	MPa	≥ 1500	ASTMD 3916
8	Tensile Modulus	Mpa	≥ 50000	ASTMD 3916
9	Elongation at break	%	≤ 3.0	ASTMD 3916
10	Heat Stress (Min. Bending Radius)at 80°C For 24hr	mm	50 x Diameter of Rod	SFPL/QC/WI/03
11	Appearance	-	Smooth, Free from harmful cracks	Visual
12	Length	Kms	As per Customer Requirement	Counter Meter

Quality Management System

Driven by Precision. Defined by Quality.

Shresth Composite delivers advanced composite solutions for optical fibre cables—where quality is a journey, not a milestone.

Our Commitment to Excellence

We offer
100% Rewinding

ISO 9001:2015 Certified
World-Class Infrastructure
Global Standards

Process Integrity
Digitally tracked production at every step

Skilled Workforce
Certified professionals with continuous training

Client-Centric QC
Custom checks as per client specs

Risk Control
Real-time defect tracking & rapid response

Tested for Excellence

Our in-house labs ensure every product is built for reliability with tests including:

- Mechanical Strength (Tensile, Compression, Flexural)
- Thermal Stability & Aging Simulation
- Resin Flow & Viscosity Checks
- Dimensional Accuracy
- Environmental Resistance (-40°C to +200°C)
- Client-Specific Performance Testing