

FUTURE OF ADVANCED COMPOSITES **FRP TECHNOLOGY**

STRONGER. SMARTER. MORE DURABLE SOLUTIONS.



ABOUT COMPANY

Surolia Enterprises was founded by a team of dedicated professionals focused on delivering quality FRP rod solutions with reliable timelines. Today, Surolia Enterprises Pvt. Ltd. is a well-respected name known for consistent performance and trusted results.

We provide value-added products, services, and solutions to the FRP industry, embracing new technologies to deliver improved and more functional material applications.

Our purpose is to connect talent, innovation, and technology to build a better and more sustainable future for our customers, stakeholders, and communities.



VISION

To become a trusted leader in FRP rod solutions by delivering superior quality, innovation, and sustainable growth across industries.



MISSION

To consistently deliver high-performance FRP rods through advanced manufacturing, quality excellence, and a strong commitment to customer satisfaction.



CORE VALUES

We are committed to quality, precision, and continuous innovation in every FRP rod we manufacture. We build trust through integrity, teamwork, and delivering reliable solutions that exceed customer expectations.

FRP Rods

For Use in Optical Fibre Cable



PRODUCT DETAILS:

Surolia Enterprises is pioneer in supplying FRP rods for optical fibre cables. Surolia Enterprises technology allows the production of composite rods based on glass reinforcement and in a range of diameters from 0.4 mm to 5.0 mm. FRP provides excellent tensile strength performance due to higher stiffness and anti-buckling properties, which increases the overall service life of optic fibre cables.

Surolia Enterprises FRP is available in various coatings including EAA (Ethylene Acrylic Acid) and HDPE, which allows easy handling and better grip to the cables.

BENEFITS:

- ▶ High Strength & Lightweight
- ▶ Excellent Flexibility
- ▶ Strong Material Bonding
- ▶ Uniform Shape & Diameter
- ▶ Better Flexibility than Steel
- ▶ Cost-Effective Solution



MANUFACTURING:

FRP Rods Are Explicitly Designed to Meet Optical Fiber Cable Performance Requirements. The Rods Are Manufactured Using Glass Fibre with Unique Resin Formulations. We Adopt Innovative Pultrusion Technology to Produce Cost-Effective and High-Quality Cable Reinforcement.

FRP Rods

TECHNICAL DATA

PHYSICAL PROPERTIES

Properties	Test Method	Unit	Value
Glass Content	DIN EN ISO1172	%	80
Diameter Tolerance	Micrometer	mm	± 0.05
Ovality	Micrometer	mm	± 0.05
Density	Water Immersion	gm/cc	2.05 to 2.15

HEAT STRESS TEST



FRP Rods

TECHNICAL DATA

MECHANICAL PROPERTIES			
Properties	Test Method	Unit	Value
Tensile Modulus	ASTM D3916	GPa	≥ 50
Tensile Strength at Break	ASTM D3916	GPa	≥ 1.50
Elongation at Break	ASTM D3916	%	≥ 2.0
Coefficient of Thermal Expansion	ASTM D696	cm/°C	5.9×10^{-5}
Water Absorption	ASTM D570	%	< 0.1
Minimum Bend Radius at 25°C	—	—	≤ 50 D
Resistance to Bending	ASTM D3916	N/sq mm	≥ 1500
Resistance to Compression	ASTM D53455	N/sq mm	≥ 300

TENSILE TESTING



FRP Rods

SIZE

We provide standard diameter size from 0.40 mm to 5.00 mm diameter. We also offer flat rod as per required dimensions. Please contact us. We would be glad to customize a solution if any types of coating or products outside this range are required.

PACKING

FRP rod is wound on plywood or plastic spools depending upon the customer's requirements. Customized packing solutions are also available on request.

Spools Packing



Standardized Stacking and Stuffing of Spools In



Customized Stacking Of Spools



CERTIFICATIONS



Certificate of Registration

This certificate has been awarded to

Surolia Enterprises Private Limited
G-48, RIICO Industrial Area, P.O. Mau, Sri Madhopur, Sikar, Rajasthan, 332715, India

In recognition of the organization's Environmental Management System which complies with

ISO 14001:2015

The scope of activities covered by this certificate is defined below

Manufacture, Supply and Export of Telecommunication Grade Fibre Reinforced Plastic Rod and Aramid Reinforced Plastic Rod and Optical Fibre Cable

Certificate Number 125406/A/0001/UK/En			
Date of Issue of Certification Cycle	Issue Number	Certificate Expiry Date	Certification Cycle
06 January 2026	2	05 January 2029	2
Revision Date	Revision Number	Original Certificate Issue Date	Scheme Number
04 December 2025	0	06 January 2023	n/a

For detailed explanation for the data fields above, refer to <http://www.urs-holdings.com/logos-and-regulations>

Issued by  Mukesh Singhal - On behalf of the Schemes Manager



If there is any doubt as to the authenticity of this certificate, please do not hesitate to contact the Head Office of the Group on info@urs-certification.com.
URS is a member of United Register of Systems (URS) Ltd, United House, 20 Park Hill, Birmingham, B5 7SA, UK. Company Registration No. 1228985



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This certificate has been awarded to

Surolia Enterprises Private Limited
G-48, RIICO Industrial Area, P.O. Mau, Sri Madhopur, Sikar, Rajasthan, 332715, India

In recognition of the organization's Occupational Health and Safety Management System which complies with

ISO 45001:2018

The scope of activities covered by this certificate is defined below

Manufacture, Supply and Export of Telecommunication Grade Fibre Reinforced Plastic Rod and Aramid Reinforced Plastic Rod and Optical Fibre Cable

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Surolia Enterprises Private Limited
G-48, RIICO Industrial Area, P.O. Mau, Sri Madhopur, Sikar, Rajasthan, 332715, India

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PARTNER WITH US

LET'S BUILD STRONGER, SMARTER INFRASTRUCTURE TOGETHER



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