



Technical Data Sheet

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Product Name: RELINFORCE G Fab 930 UD

Glass Fabric for FRP Structural Strengthening

Description

RELINFORCE G Fab 930 UD is Tricot Stitch reinforced Unidirectional Glass Fabric of 930 GSM for respective strength criteria.

RELINFORCE G Fab 930 UD saturated with RELINFORCE Fab S Series product (Epoxy Resin Series for Fabric Saturation) form a composite matrix with high performance features.

Application Areas

- RELINFORCE G Fab 930 UD based composite increase flexural, shear & axial load capacity of the member
- Can be applied on structures like,
 - 1. Seismic Retrofitting of Civil Structures
 - 2. Pipe Encasing for Leakage & Strengthening
 - 3. Column & Chimney
 - 4. Beam & Slab
 - 5. Silos & Tanks

Properties

Fabric Weight (Uni-directional)	930 GSM
Fabric Weight (Total)	1055 GSM
Tensile Strength of Glass Fiber	3500 N/mm ²
Modulus of Elasticity of Glass Fiber	72 kN/mm2
% Elongation @ Break of Glass Fiber	4.6
Wide Width Tensile Strength (ISO 10319)	15000 kN/mm2
% Elongation @ Break of Glass Fabric (ISO 10319)	6
*Tensile Strength- Laminate (ASTM D3039)	510 N/mm ²
*% Elongation @ Break – Laminate (ASTM D3039)	5.0
*Tensile Modulus – Laminate (ASTM D3039)	29 GPa
*Thickness - Laminate	~1.1 mm
Consumption of <i>RELINFORCE Fab S</i> (in kg/m²)	~ 1.0

Note:

- 1. *Laminate prepared using RELINFORCE Fab S. Result might change when use with other resin system.
- 2. Values mentioned above are indicative.
- 3. For Specific & Critical need, designer is advised to get independent testing to ascertain the values for assurance of intended performance.
- 4. Glass Fabric of GSM other than mentioned above can be made on special request.

Vadodara Composites Division, Village: Asoj, Vadodara-Halol Expressway, Taluka: Waghodia, Vadodara, Gujarat 391510





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Features & Benefits

- Tricot Stitch Fabric allows flexibility of cutting the fabric in any shape without disorientation of Glass Fiber orientation.
- Various Options available to give free hand to Designer to have tailor made system.
- Lower Thickness
- Light in Weight & do not increase dead weight on the structure

Packaging

RELINFORCE G Fab 930 UD is supplied in 50M length & 0.5M wide Rolls.

Shelf Life

2 years from the date of manufacturing.

Precaution

Precaution to be taken that it is kept in roll form only & not to be bend right angle & stacked. Bending the loose fabric in right angle can cause damage to fiber matrix of the fabric.

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