



## LOCTITE RENEWWRAP GF875 LPL Saturant

**LOCTITE RenewWrap GF875** is a dry, unidirectional reinforcing fabric, made with high strength E-glass fibers. RenewWrap GF875 fabric, along with LPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

### TYPICAL USES

Recommended for:

- Seismic retrofit and strengthening of masonry elements
- Additional protection from environmental conditions
- Confinement of repaired elements
- Insulation barrier between exposed steel and carbon fiber

### RELEVANT INFORMATION

Design calculations shall be made and sealed by a licensed, independent engineer knowledgeable with the design of FRP strengthening systems.

### PACKAGING

| WIDTH         | LENGTH        | YIELD                                           |
|---------------|---------------|-------------------------------------------------|
| 25in. (635mm) | 256ft (45.7m) | 533 ft <sup>2</sup> /roll (49.5m <sup>2</sup> ) |

## Unidirectional E-Glass Fiber Reinforcing Fabric

### BENEFITS

- Lightweight, flexible, high strength fabric can be wrapped around and externally bonded to structural elements
- Easy to impregnate using wet or dry lay-up methods
- Non-corrosive



### CAUTION

LOCTITE RenewWrap E-glass fabrics are non-reactive. Wear appropriate PPE. SDS are available and should be consulted for additional information.





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## Unidirectional E-Glass Fiber Reinforcing Fabric

### Typical Dry Fiber Properties<sup>1</sup>

| PROPERTY               | VALUE                            |
|------------------------|----------------------------------|
| Fiber Type             | E-Glass                          |
| Color                  | White                            |
| Fabric Construction    | Unidirectional                   |
| Fiber Tensile Strength | 500 ksi (3450 MPa)               |
| Fiber Tensile Modulus  | 11,700 ksi (80 GPa)              |
| Fiber Rupture Strain   | 4.0%                             |
| Fabric Areal Weight    | 26 oz./yd <sup>2</sup> (875 gsm) |

#### Notes:

1. Fiber properties are typical values of the fibers used in the manufacture of the reinforcing fabrics. They are based on proprietary test methods employed by the supplier of the carbon fibers. Fiber properties shall not be used for design. They are reported here to provide the designer with a general understanding of the grade of fibers used in the reinforcing fabrics.

### Physical properties

| PROPERTY                       | VALUE              | TEST METHOD |
|--------------------------------|--------------------|-------------|
| Nominal Thickness <sup>2</sup> | 0.051 inch (1.3mm) |             |

### Mechanical properties

| PROPERTY                                   | VALUE                             | METHOD     |
|--------------------------------------------|-----------------------------------|------------|
| Tensile Strength                           | 78.0 ksi (537 MPa)                | ASTM D3039 |
| Tensile Modulus of Elasticity <sup>3</sup> | 4.18 Msi (28.8 GPa)               | ASTM D3039 |
| Elongation at Break                        | 1.86%                             | ASTM D3039 |
| Tensile Strength/Unit Width <sup>3</sup>   | 3.98 kip/in./ply (0.69 kN/mm/ply) | ASTM D7565 |
| Tensile Modulus/Unit Width                 | 213 kip/in/ply (37.3 kN/mm/ply)   | ASTM D7565 |

#### Notes:

2. Actual thicknesses measured in the field may vary slightly. As with any FRP strengthening system, the strength/unit width and modulus/unit width should be used for design and for field QC purposes.

3. Modulus of elasticity and unit stiffness are reported as average values in accordance with ACI 440.2 and shall be used for design. They shall not be used for accepting/rejecting results of field QC test results.

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