



Direct Roving 318T-E6 for Filament Winding

318T roving is a continuous single-end direct roving produced with E6 glass formulation and coated with a silane-based sizing. 318T is designed to achieve optimal wet-out, good abrasion resistance and good process properties in filament winding process. It is specifically designed to reinforce epoxy resin.

SPECIFICATIONS

Type of Glass
E-Glass (E)

Type of Fiberglass
Direct Roving (DR)

Standard
Linear Mass Densities
600–2400
grams per metre (Tex)

Filament Diameter
17-24 microns

Most Common Sizes
E6DR17-1200-318T

FEATURES

- Complete and fast wet-out
- Excellent acid corrosion resistance
- Excellent fatigue resistance
- Excellent mechanical properties
- Good abrasion resistance under high speed and high tension

RESIN COMPATIBILITY

- Epoxy (EP)

TECHNICAL PARAMETERS

Linear Density (%)
ISO 1889
± 5%

Moisture Content (%)
ISO 3344
≤ 0.10%

Size Content (%)
ISO 1887
0.60 ± 0.10%

Breakage Strength (N/tex)
ISO 3341
≥ 0.40

MECHANICAL PROPERTIES

Tensile Strength
ASTM D2343
2553 MPa

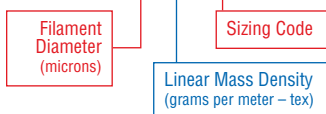
Tensile Modulus
ASTM D2343
81325 MPa

Shear Strength
ASTM D2344
71 MPa

Shear Strength Retention
(72 hr. boiling)
95%

NOMENCLATURE

E6DR00-000-000



Direct Roving **318T-E6** for Filament Winding

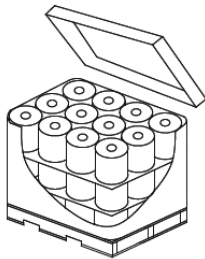
PACKAGING

Doffs can be packed on pallets or in small cardboard boxes.



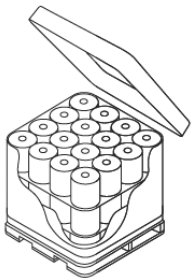
Doff

| Doff: | | 275 |
|-----------------------|--|-------------------|
| Doff outside diameter | | 275 mm (10.8 in) |
| Doff inside diameter | | 160 mm (6.3 in) |
| Doff height | | 260 mm (10 in) |
| Doff weight | | 15.6 kg (34.4 lb) |



3-Layer Pallet
12 doffs per Layer

| Pallet: | | | | |
|-----------------------------|-----------------|---------------------|------------------|-------------------|
| Number of layers per pallet | 3 | 4 | 3 | 4 |
| Number of doffs per layer | 16 | 16 | 12 | 12 |
| Number of doffs per pallet | 48 | 64 | 36 | 48 |
| Net weight | 750 (1653.4 lb) | 1000 kg (2204.6 lb) | 792 kg (1746 lb) | 1056 kg (2328 lb) |
| Length | 1120 mm (44 in) | 1120 mm (44 in) | 1270 mm (50 in) | 1270 mm (50 in) |
| Width | 1120 mm (44 in) | 1120 mm (44 in) | 960 mm (37.8 in) | 960 mm (37.8 in) |
| Height | 940 mm (37 in) | 1180 mm (46.5 in) | 940 mm (37 in) | 1180 mm (46.5 in) |



3-Layer Pallet
16 doffs per Layer

STORAGE

Unless otherwise specified, fiberglass products should be stored in a dry, cool and moisture-proof area. Room temperature and humidity should always be maintained at 15°C – 35°C, 35% – 65% respectively.

Best used within 12 months after production date. Fiberglass products should remain in their original packaging until just prior to use.

To ensure safety and avoid damage to the product, the pallets should not be stacked more than two layers high. When the pallets are stacked in two layers, care should be taken to correctly and smoothly move the top pallet.