



## 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

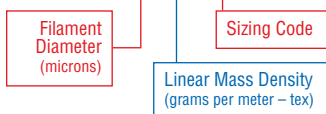
Tensile Modulus  
ASTM D2343  
81325 MPa

Shear Strength  
ASTM D2344  
71 MPa

Shear Strength Retention  
(72 hr. boiling)  
95%

### NOMENCLATURE

E6DR00-000-000



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

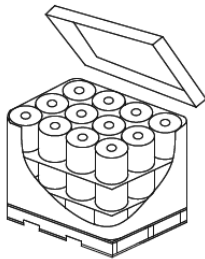
## PACKAGING

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



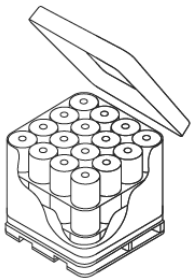
Doff

<b>Doff:</b>		<b>275</b>
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

<b>Pallet:</b>				
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.