



## Assembled (Gun) Roving 180 for Spray-Up

A spray or chopper gun, simultaneously and uniformly chops the assembled roving, mixes it with the resin onto an open mold. Assembled Roving 180 is an E-glass, coated with a silane-based sizing.

### SPECIFICATIONS

Type of Glass  
E-Glass (E)

Type of Fiberglass  
Assembled Roving (R)

Standard  
Linear Mass Densities  
2400, 3000  
grams per metre (Tex)

Filament Diameter  
13 microns

Most Common Sizes  
ER13-2400-180  
ER13-2500-180  
ER13-3000-180

### FEATURES

- Excellent choppability
- Excellent dispersion
- Excellent mechanical and hydrolysis resistance property of the finished product
- Excellent static control
- Excellent strength of finished composite products
- Fast and complete wet out ensuring easy roll-out and optimum air release

### RESIN COMPATIBILITY:

- Polyurethane
- Unsaturated polyester
- Vinyl ester

### USES:

- Automotive parts
- Boats/yachts
- Pipes (combined with central casting process)
- Sanitary wares
- Swimming pools

### TECHNICAL PARAMETERS

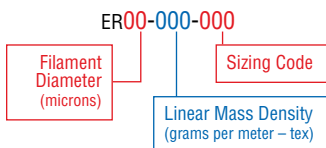
Linear Density (%)  
ISO 1889  
± 5

Moisture Content (%)  
ISO 3344  
≤ 0.15

Size Content (%)  
ISO 1887  
1.00 ± 0.15

Stiffness (mm)  
ISO 3375  
135 ± 15

### NOMENCLATURE



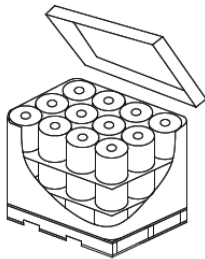
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## PACKAGING

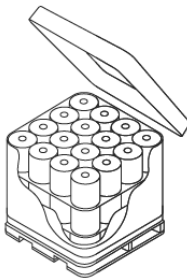
Doffs can be packed on pallets or in small cardboard boxes.



Doff



3-Layer Pallet  
12 doffs per Layer



3-Layer Pallet  
16 doffs per Layer

Doff:	270	310
Doff outside diameter	270 mm (10.6 in)	310 mm (12.2 in)
Doff inside diameter	100 mm (4 in)	100 mm (4 in)
Doff height	260 mm (10 in)	260 mm (10 in)
Doff weight	17 kg (37.4 lb)	23 kg (50.7 lb)

## 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	816 (1797.3 lb)	1088 kg (2398.5 lb)	828 kg (1825.4 lb)	1104 kg (2433.9 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)

## 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.