



Assembled Roving 440 for Sheet Molding Compound (SMC)

Assembled Roving 440 is designed for Class A surface and structural Sheet Molding Compound process. It is coated with a high performance compod sizing. Compared with traditional SMC Roving, 440 can deliver high glass content in SMC sheets and has good wet-out and excellent surface properties.

SPECIFICATIONS

Type of Glass
E-Glass (E)

Type Of Fiberglass
Assembled Roving (R)

Standard
Linear Mass Densities
2400, 4392
grams per metre (Tex)

Filament Diameter
14 microns

Most Common Size
ER14-4400-440
ER16-4400-440
ER14-4800-440

FEATURES

- Excellent anti-static properties
- Excellent flowability
- Excellent mechanical properties
- Good choppability
- Good wet-out

RESIN COMPATIBILITY

- Unsaturated polyester
- Vinyl ester

USES

- Automotive parts
- Bathtubs
- Chairs
- Doors
- Sports apparatus
- Water tanks

TECHNICAL PARAMETERS

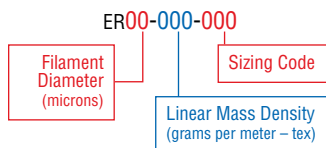
Linear Density (%)
ISO 1889
± 5

Moisture Content (%)
ISO 3344
≤ 0.10

Size Content (%)
ISO 1887
1.25 ± 0.15

Stiffness (mm)
ISO 33751
160 ± 20

NOMENCLATURE



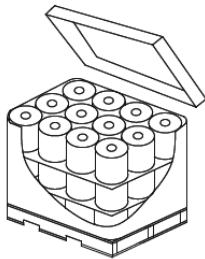
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PACKAGING

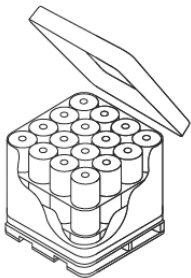
Doffs can be packed on pallets or in small cardboard boxes.



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) | 22 kg (48.5 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 (2396.5 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) |

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.