

DATA SHEET



Assembled Roving 456 for Sheet Molding Compound (SMC)

456 is a high performance SMC roving designed for Class A applications.

SPECIFICATIONS

Type of Glass
E-Glass (E)

Type of Fiberglass
Assembled Roving (R)

Standard
Linear Mass Densities
4400
grams per metre (Tex)

Filament Diameters
15, 16 microns

Most Common Size
ER15-4400-456

FEATURES

- Excellent flowability in molding
- Excellent wetting characteristics
- Good dispersion after chopping
- Good static control
- Moderate springback of sheets

RESIN COMPATIBILITY:

- Unsaturated polyester
- Vinyl ester

USES:

- Automotive parts such as doors, engine hood, interior and bumpers
- Residential building materials
- Sanitary wares
- Sports apparatus

TECHNICAL PARAMETERS

Linear Density (%)
ISO 1889
 ± 5

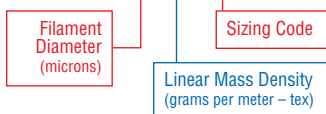
Moisture Content (%)
ISO 3344
 ≤ 0.10

Size Content (%)
ISO 1887
 1.90 ± 0.15

Stiffness (mm)
ISO 3375
 170 ± 20

NOMENCLATURE

ER00-000-000



PACKAGING STORAGE

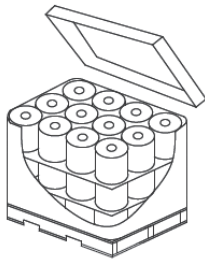
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PACKAGING

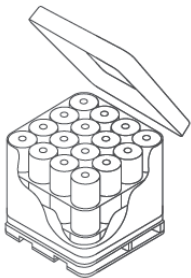
Doffs can be packed on pallets or in small cardboard boxes.



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.