



Direct Roving 386 for Filament Winding, Pultrusion and weaving

386 Direct Roving is coated with a silane-based sizing compatible with unsaturated polyester, vinyl ester, and epoxy resins. It is designed for filament winding, pultrusion, and weaving applications. 386 is suitable for use in pipes, pressure vessels, gratings, and profiles, and the woven roving converted from it is used in boats and chemical storage tanks.

SPECIFICATIONS

Type of Glass
E-Glass (E)

Type of Fiberglass
Direct Roving (R)

Standard
Linear Mass Densities
300 – 9600
grams per metre (Tex)

Filament Diameter
14 –31 microns

Most Common Sizes
EDR17-1200-386

FEATURES

- Low fuzz
- Compatible with multiple resin systems
- Complete and fast wet-out
- Good processing properties
- Excellent mechanical properties

RESIN COMPATIBILITY

- Epoxy (EP)
- Unsaturated polyester
- Vinyl ester

USES

- Automotive
- Construction
- Aeronautics

TECHNICAL PARAMETERS

Linear Density (%)
ISO 1889
± 5%

Moisture Content (%)
ISO 3344
≤ 0.10%

Size Content (%)
ISO 1887
0.55 ± 0.15%

Breakage Strength (N/tex)
ISO 3341
≥ 0.40

MECHANICAL PROPERTIES

Tensile Strength
ASTM D2343
2345 MPa

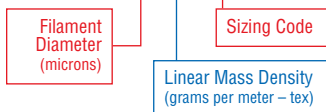
Tensile Modulus
ASTM D2343
79794 MPa

Shear Strength
ASTM D2344
63 MPa

Shear Strength Retention
(72 hr. boiling)
93%

NOMENCLATURE

EDR00-000-000



PACKAGING STORAGE

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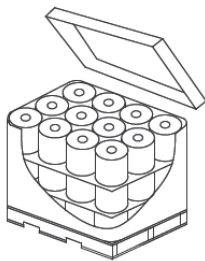
PACKAGING

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



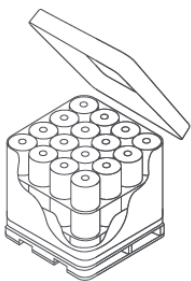
Doff

Doff:	270	310
Doff outside diameter	270 mm (10.6 in)	310 mm (12.2 in)
Doff inside diameter	160 mm (6.3 in)	160 mm (6.3 in)
Doff height	260 mm (10 in)	260 mm (10 in)
Doff weight	15.6 kg (34.4 lb)	22 kg (48.5 lb)



3-Layer Pallet
12 doffs per Layer

Pallet:	270		310	
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.