



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

Product Features

- ◎ Good process performance and low fuzz
- ◎ Compatibility with a multiple of resin systems
- ◎ Complete and fast wet-out
- ◎ Good mechanical properties of woven fabrics

Identification

Glass Type	E						
Type of Size	Silane						
Size Code	386T						
Linear Density(tex)	300	200	600	1100	2200	2400	9600
		400	735	1200		4800	
Filament Diameter(um)	13	16	17	17	22	24	31



Technical Parameters

Linear Density (%)	Moisture Content (%)	Size Content (%)	Breakage Strength (N/tex)
ISO 1889	ISO 3344	ISO 1887	ISO 3341
±5	≤ 0.10	0.60±0.10	≥0.40 (≤4400tex) ≥0.35 (4400~8800tex) ≥0.30 (>8800tex)

Packaging

* The product can be packed on pallet or in small cardboard boxes.

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

Mechanical Properties

Mechanical Properties	Unit	Value	Resin	Method
Tensile Strength	MPa	2660	UP	ASTM D2343
Tensile Modulus	MPa	80218	UP	ASTM D2343
Tensile Strength	MPa	2580	EP	ASTM D2343
Tensile Modulus	MPa	80124	EP	ASTM D2343
Shear strength	MPa	68	EP	ASTM D2344
Shear strength retention (72 hr boiling)	%	94	EP	

The above data are actual experimental values for EDR17-1200-386T and for reference only.

Number of layers	3	4	3	4
Number of doffs per layer	16		12	
Number of doffs per pallet	48	64	36	48
Net weight per pallet kg (lb)	750 (1653.4)	1000 (2204.6)	792 (1746)	1056 (2328)

Pallet length mm (in)	1120 (44)	1270 (50)
Pallet width mm (in)	1120 (44)	960 (37.8)
Pallet height mm (in)	940 (37)	1180 (45)
	940 (37)	1180 (46.5)

Storage

Unless otherwise specified, the fiberglass products should be stored in a dry, cool and moisture-proof area. The room temperature and humidity should be always maintained at 15°C~35°C and 35% ~ 65%. It is best if the product is used within 12 months after production date. The fiberglass products should remain in their original packaging until just prior to user.

To ensure safety and avoid damage to the product, the pallets should not be stacked more than three layers high. When the pallets are stacked in 2 or 3 layers, special care should be taken to correctly and smoothly move the top pallet.

