

常州联拓复合材料有限公司

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DIRECT ROVING FOR GENERAL PURPOSE

386H 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.

386H is suitable for use in pipes, pressure vessels, gratings and profiles, and the woven rovings converted from it is used in boats and chemical storage tanks.

Product Features

- ◎ Good process performance and low fuzz.
- ◎ Compatibility with a multiple of resin systems.
- ◎ Complete and fast wet-out.
- ◎ Good mechanical properties.
- ◎ Excellent acid corrosion resistance.
- ◎ Excellent aging resistance.

Identification :

Glass Type	E6						
Type of Size	Silane						
Size Code	386H						
Linear Density (tex)	300	600	1200	2200	2400	4800	9600
Filament Diameter (μm)	13	17	17	23	17/24	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	0.50± 0.15	≥0.40 (≤17μm) ≥0.35 (17 ~ 24μm) ≥0.30 (≥24μm)

Mechanical Properties

Mechanical Properties	Unit	Value	Resin	Method
Tensile Strength	MPa	2765	UP	ASTM D2343
Tensile Modulus	MPa	81759	UP	ASTM D2343
Shear strength	MPa	2682	EP	ASTM D2343
Tensile Modulus	MPa	81473	EP	ASTM D2343
Shear strength	MPa	70	EP	ASTM D2344
Shear strength retention (72 hr boiling)	%	94	EP	/

Storage

Unless otherwise specified, the fiberglass products should be stored in a dry, cool and moisture-proof area. The fiberglass products should remain in their original package until prior to use. The room temperature and humidity should be always maintained at -10°C~35°C and ≤80% respectively. 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.

Packaging

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

Package height mm (in)	260 (10.2)	260 (10.2)
Package inside diameter mm (in)	160 (6.3)	160 (6.3)
Package outside diameter mm (in)	275 (10.6)	310 (12.2)
Package weight kg (lb)	15.6 (34.4)	22 (48.5)

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(1653.5)	1000(2204.6)	792 (1746.1)	1056(2328.1)

Pallet length mm (in)	1120 (44.1)		1270 (50.0)	
Pallet width mm (in)	1120 (44.1)		960 (37.8)	
Pallet height mm (in)	940 (37.0)	1200 (47.2)	940 (37.0)	1200 (47.2)

