



E6

306A Direct Roving

For Pultrusion, Weaving

306A Direct Roving is coated with a silane-based sizing compatible with polyester, vinyl ester, and epoxy resins. 306A is designed for use in weaving and pultrusion processes.

306A has good abrasion resistance and low fuzz, and is suitable for use in weaving process to manufacture geo-grids. 306A is also suitable for use in pultrusion processes to manufacture strength members of electric and optical cables.

Product Features

- ◎ Multi-resin compatibility, fast and complete wet-out
- ◎ Good mechanical properties of parts
- ◎ Good abrasion resistance and low fuzz,
- ◎ good processing properties
- ◎ Excellent acid corrosion resistance

Identification

Glass Type	E6							
Type of Size	Silane							
Size Code	306A							
Linear Density tex	300	600	735	900	1200	1500	1700	2400
Filament Diameter μm	13	17	17	17	17	18	21	24



Technical Parameters

Linear Density (%)	Moisture Content (%)	Size Content (%)	Breakage Strength (N/Tex)
ISO1889	ISO3344	ISO1887	ISO3341
±5	≤ 0.10	0.65 ± 0.10	≥ 0.45

Mechanical Properties

Mechanical Properties	Unit	Value	Resin	Method
Tensile Strength	MPa	2732	UP	ASTM D2343
Tensile Modulus	MPa	80132	UP	ASTM D2343
Tensile Strength	MPa	2657	EP	ASTM D2343
Tensile Modulus	MPa	81115	EP	ASTM D2343
Shear strength	MPa	67	epoxy	ASTM D2344
Shear strength retention (72 hr boiling)	%	91	epoxy	—

The above data are actual experimental values for E6DR17-1200-306A and for reference only.

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.

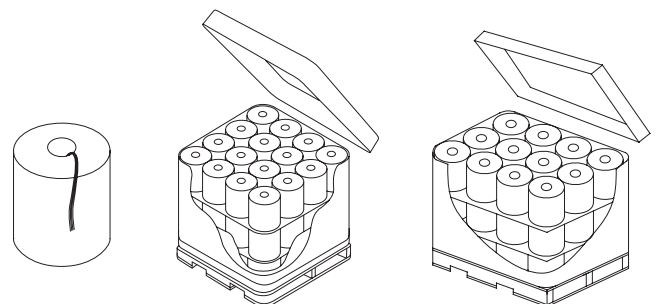
Packaging

* 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)	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 (1653.4)	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 (46.5)	940 (37)	1180 (46.5)



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