

308 Direct Roving is produced using E6 glass formulation and coated with a silane-based sizing. It is specifically designed to reinforce epoxy resins and is suitable for amine or anhydride curing systems. The combination of 308 and epoxy resin delivers excellent mechanical properties and fatigue resistance. 308 is suitable for high tension filament winding process to manufacture small-diameter sucker rods, high pressure pipes, storage tanks, and pressure vessels.



Product Features

- Complete and fast wet-out
- Good abrasion resistance and smooth transfer between packages under high tension
- High mechanical strength and good fatigue resistance
- Superior chemical corrosion resistance

Identification

Glass Type	E6		
Type of Size	Silane		
Size Code	308		
Linear Density (tex)	1100	2000	2400
Filament Diameter(um)	17	21	17/24

Technical Parameters

Linear Density (%)	Moisture Content (%)	Size Content (%)	Breakage Strength (N/Tex)
ISO1889	ISO3344	ISO1887	ISO3341
±5	≤ 0.10	0.60±0.10	≥0.40

Mechanical Properties

Mechanical Properties	Unit	Value	Resin	Method
Tensile Strength	MPa	2625	EP	ASTM D2343
Tensile Modulus	MPa	81486	EP	ASTM D2343
Shear strength	MPa	72	EP	ASTM D2344
Shear strength retention (72 hr boiling)	%	95	EP	—

The above data are actual experimental values for E6DR21-2000-308 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 (11)	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 (1744.5)	1056 (2326)

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)

