

456B is a premium grade Class-A SMC roving. Coated with a silane-based sizing, 456B is compatible with unsaturated polyester and vinyl ester resins.

Because of its superior permeability and wet-out properties, 456B enables high line speeds and heavy density sheet production, even with the highest viscosity paste formulations and molding of the most complex parts without blisters or porosity issues. This, in turn, leads to high first pass yields in molding, priming and painting operations. Primary use of 456B Class-A SMC Roving is for the Exterior Body Parts: hoods, fenders, decklids, doors, quarter panels and roof panels in the Automotive, light truck and heavy truck markets. This product is also well suited for "green", soy-based resins for agriculture and construction machine parts and sports equipment.

Product Features

- ◎ Excellent static control and choppability
- ◎ Low mat loft
- ◎ Fast resin permeability and complete strand wet-out (no dry strands)
- ◎ Excellent mold flow, even in the most complex parts
- ◎ Low defect rate (blisters and porosity)
- ◎ Smooth Class-A surface of composite products

Identification

Example	ER15-4400-456B
Type of Glass	E
Assembled Roving	R
Filament Diameter, μm	15, 16
Linear Density, tex	4400
Size Code	456B



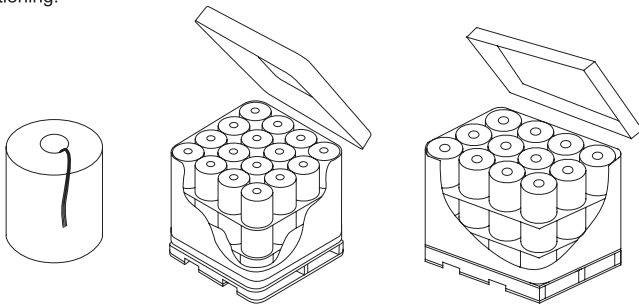
Technical Parameters

Linear Density (%)	Moisture Content (%)	Size Content (%)	Stiffness (mm)
ISO 1889	ISO 3344	ISO 1887	ISO 3375
± 5	≤ 0.10	2.00 ± 0.25	170 ± 20

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 $15^{\circ}\text{C} \sim 35^{\circ}\text{C}$ and $35\% \sim 65\%$ 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.

The product should be transferred to the workshop 24 hours before use to undergo conditioning.



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)	100 (4)	100 (4)
Package outside diameter mm (in)	270 (10.6)	340 (13.4)
Package weight kg (lb)	17 (37.4)	28.5 (62.8)

Number of layers	3	4	3
Number of doffs per layer	16		12
Number of doffs per pallet	48	64	36
Net weight per pallet kg (in)	816 (1797.3)	1088 (2396.5)	1026 (2261.8)

Pallet length mm (in)	1120 (44)	1830 (54.3)	
Pallet width mm (in)	1120 (44)	1050 (41.3)	
Pallet height mm (in)	940 (37)	1180 (46.5)	940 (37)