

Product Information

SE 1200

TYPE 30® Roving

Roving for Knitting, Weaving, and Filament Winding

Description

SE 1200 Type 30® Roving is specifically designed for use in knitting and weaving applications in polyester, vinyl ester, and epoxy resin systems. *SE 1200 T30* rovings can be used in a variety of processes to manufacture knitted or woven glass fabrics, central stiffness members for fiber optic cabling, and filament wound pipe, tubes, or tanks. *SE 1200 T30* is designed to maximize fatigue performance in polyester resin. *SE 1200 T30* is specifically designed to optimize performance with Advantex® glass, Owens Corning's trademarked corrosion resistant E glass.

SE 1200 Type 30 rovings are single end rovings, produced using the state-of-art technology in conjunction with statistical process control in manufacturing facilities certified to ISO 9002.

SE 1200 is designed to be used in applications demanding high strength, fast wetout, where excellent processing is required, in polyester, vinyl ester, and epoxy resin systems. Typical applications include high speed knitting, weaving, and braiding, filament winding, pultrusion, and fiber optic telecom cable reinforcement.

Features

- Excellent processing, specifically designed for Advantex® glass
- Excellent laminate strength properties, particularly fatigue life with polyester resin
- Fast Wet Out
- Multi-resin compatible sizings for maximum process flexibility
- Excellent package runout and transfer with OC Tack-Pak® packaging
- Optimum Package/Pallet weight
- Available Globally

Benefits

Excellent Processing

SE 1200 Type 30 roving has no catenary, which means smooth runout throughout the package. *SE 1200* has been designed to runout under a variety of conditions. *SE 1200* has low fuzz properties that will result in smoother parts, less clean-up, and improved machine efficiencies.

The Tack Pak® packaging allows virtually 100% transfer efficiency.

Excellent laminate burst and fatigue properties

SE 1200 is designed to provide excellent laminate properties in both dry and wet environments. *SE 1200* is uniquely designed to enhance fatigue properties in polyester resin.

Fast Wet Out

The *SE 1200* sizing allows fast, uniform wet out of the strand in polyester, vinyl ester, and epoxy resin systems. Fast wet out allows the customer to optimize part fabrication time, increasing productivity and reducing cost.

Multi-Resin Compatible Sizing

The *SE 1200* silane based sizing is designed to have excellent adhesion with polyester, vinyl ester, and epoxy resin systems

Optimum Package and Pallet Weight

SE 1200 packages are typically larger than competitive products, resulting in less time needed for creeling and less splices going into the part. This results in less labor required and fewer part defects. Heavier pallets require less labor, less storage space, and less packaging to dispose of.

Available Globally

The *SE 1200* product line is also available globally. Global availability allows you to use one product rather than designing or modifying your product or process by region because of a lack of consistent product availability by region. Global availability results in lower design and qualification costs for your expanding business.

Packaging

Pallet Dimensions:

Height: 124 cm (49 inches)

Pallet Length: 114 cm (45 inches)

Pallet Width: 114 cm (45 inches)

Number of layers : 4

Net Pallet Weight: 1225-1361 kg (2700 - 3000 lbs)

Gross Pallet weight: 1270 - 1406 kg (2800 - 3100 lbs)

Doff Information:

All packages are wrapped with Tack Pak film for protection and to facilitate doff to doff transfer.

Doff Height: 27 cm (11 inches)

Doff Weight: 20.4 kg (45 lbs)

Doff Diameter: 27-29 cm (11-11.25 inches)

Number of doffs per layer: 16

Number of doffs per pallet: 64

Other information:

All pallets are stretch wrapped.



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Tex/Yields Available

SE 1200 T-30 is available in the following Tex (yields)

Tex	200	275	300	320	410	480	600	735	1100	1200	1500	2000	2200	2250	2400	4400	4800
Yield	2400	1800	1650	1550	1200	1033	825	675	450	413	330	250	225	218	207	113	103

Property	Filament Diameter Micron	Filament Diameter Inches	Approx. Number of Filaments
SE 1200-735 Tex (675 Yield)	13	0.00053	2000
SE 1200-1100 Tex (450 Yield)	17	0.00065	2000
SE 1200-2000 Tex (250 Yield)	16	0.00062	4000
SE 1200-4400 Tex (113 Yield)	23	0.00092	4000

Test Procedure: Filament Diameter is calculated. Number of Filaments per process design

Typically Expected End Use Performance

Typical Expected End Use Performance

SE 1200 – 735 Tex (675 Yield)

Strand Tensiles Property	Anhydride/ DER 331 Epoxy	
ASTM D 2343		
Tensile Strength AVG	394.1 Ksi	2.71 GPa
Range	400.1 - 387.4 Ksi	2.76-2.67 GPa

Strand Tensiles Property	Polyester F701 Resin	
ASTM D 2343		
Tensile Strength AVG	373.5 Ksi	2.57 GPa
Range	383.3 – 368.4 Ksi	2.64 – 2.54 GPa

Interlaminar Shear Strength

ASTM D 2344	Anhydride/ DER 331 Epoxy	
NOL Ring Shear AVG – dry	9625 Psi	66.3 MPa
NOL Ring Shear AVG – 72 hr boil	9537 Psi	65.7 MPa
ASTM D 2344	Polyester Resin	
NOL Ring Shear AVG – dry	10653 Psi	73.4 MPa
NOL Ring Shear AVG – 72 hr boil	9092 Psi	62.6 MPa

M. Disclaimers/Caveats

“This information is based on tests conducted by Owens-Corning. We believe the information to be reliable, but do not guarantee its applicability to the user's process or assume any liability for occurrences arising out of it's use. The user, by accepting the product described herein, agrees to be responsible for thoroughly testing any application before committing to production. Our recommendations should not be taken as inducements to infringe on any patent or violate any law, safety code, or insurance regulation.”

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