CUSTOMER ACCEPTANCE STANDARD

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PULSTRAND™4100 SINGLE END ROVING (TYPE 30®) FOR ENHANCED PERFORMANCE IN PULTRUSION APPLICATIONS

I. PRODUCT DESCRIPTION

PulStrand™ 4100 Type 30® is a single end roving designed specifically for pultrusion. PulStrand™ 4100 has a silane based sizing specifically designed for fast wet-out, good processing, and excellent laminate properties.

This product is made using Advantex® glass fiber. Advantex glass fiber combines the electrical and mechanical properties of traditional E glasses with the acid corrosion resistance of E-CR glass. Advantex meets the requirements stated of both E and E-CR glass in both ISO 2078 and ASTM D578-98.

PulStrand™4100 Type 30® is manufactured in conformity with the following standards: ISO 2797, NF B38151 and DIN 61855.

II. USE AND APPLICATION CHARACTERISTICS

PulStrand™4100 is designed specifically for pultrusion, offering fast wetting, excellent processing and superior laminate performance in all major resin systems.

III. SIGNIFICANT PROPERTIES AND TEST METHODS

Product	Avg Filament Diameter µ	*Linear Density (tex)	Solids Content (%)	Moisture (%)	*Linear Density (yield) ISO 1889		
Test Method	**ISO 1888**	**ISO 1889**	**ISO 1887**	**ISO 3344**	**USL**	**NOM**	**LSL**
PS4100 600 Tex	17	600 ±45	0.60 ± 0.15	≤0.1	894	827	769
PS4100 2000 Tex	16	2000 ±150	0.60 ± 0.15	≤0.1	268	248	231
PS4100 2400 Tex	17	2400 ±180	0.60 ± 0.15	≤0.1	223	207	192
PS4100 24 µ 2400 Tex	24	2400 ±180	0.60 ± 0.15	≤0.1	223	207	192
PS4100 4400 Tex	23	4400 ±332	0.60 ± 0.15	≤0.1	122	113	104
PS4100 4800 Tex	24	4800 ± 362	0.60 ± 0.15	≤0.1	112	103	96
PS4100 8000 Tex	32	8000 ± 600	0.65 ± 0.15	≤0.1	57.7	62.0	67.0
PS4100 8800 Tex	33	8800 ± 666	0.65 ± 0.15	≤0.1	61.0	56.4	52.4
PS4100 9600 Tex	34	9600 ± 724	0.65 ± 0.15	≤0.1	55.9	51.7	48.0

- Glass + Sizing

IV. VISUAL CHARACTERISTICS

Roving doffs are square-edged, cylindrical packages which are firmly and evenly wound and have a constant traverse length. The packages are designed to provide a smooth runout, and their geometry is controlled to maintain the desired runout performance.

Any package build deformity, which interferes with the smooth and uniform runoff of the strand, is a cause for rejection of the package

V. PACKAGING, WRAPPING, PACKING, IDENTIFICATION AND PALLETIZATION

Pallets are stretch wrapped for load stability. Each doff is wrapped for protection and to aid strand runout and transfer.

Packaging and Palletization (standard reference).

Pallet Dimensions	
Pallet Height – cm	≈130
Pallet Length – cm	115
Pallet Width – cm	115
Pallet Weight, net – kg	≈1200
Packages per pallet	64
Layer per Pallet	4

VI LABELLING

Pallet identification:

Each pallet shall bear labels with the following information:

- Product reference
- Packaging and product code
- Production date
- Net and gross weights in kg/lbs
- Identification code of the palletized unit

Individual package identification:
The product name, Tex (yield), and production date are printed on each package.

VII STORAGE

It is recommended to store glass fiber products in a cool, dry area. The glass fiber products must remain in their original packaging material until the point of usage; the product should be stored in the workshop, within its original packaging, 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.
When stored properly, there is no known shelf life to the product, but retesting is advised after three years from the initial production date to insure optimum performance

The packaging system is designed to allow stacking of two pallets. When stacking pallets two high, care should be taken to place the top pallet gently and aligned properly. Owens Corning is not responsible for any damage resulting from stacking pallets more than two high.

VIII. SPECIAL PRECAUTIONARY NOTE

In the event that OC or the customer has reason to suspect that a shipment may contain out of spec material, the party first suspecting such condition will notify the other, and OC will assume responsibility for initiating appropriate action. The use of the suspect material should be discontinued pending an investigation of the facts.

Note that OC Reinforcements must be notified of any quality issue within six months of receipt of Material to enable problem analysis and resolution.