

Continuous Filament Mat(Continuous Strand Mat)



Fibtex™ E-glass continuous filament mat is made from continuous fiberglass strands randomly looped and bonded together with a small amount of binder.

Continuous filament mat is used in many FRP structural applications such as pultrusion, filament winding and several fiberglass-molding processes (RTM, etc.). The finished molded products have high equiaxial strengths. Typical products are marine railing, window frames, boat parts, high voltage transformers and corrosion resistant pipes. Furthermore, this product can be combined with woven roving

to make combination mat that has superior process ability and structural properties. This mat can also be used in multi-layer composite products.

Product Characteristics

- ✓ **Uniform thickness and no loose strands**
- ✓ **High resistance to distortion from handling and processing**
- ✓ **Good resin flow. Complete wet through with no bubbles**
- ✓ **Good resistance to washing and suitable for RTM processes**
- ✓ **Easily fills mold and conforms to complex shapes, while providing a smooth finished surface**

Packaging

Product is manufactured in form of a roll wound on a paper tube and then packed in a plastic film and placed within a cardboard carton. Rolls can be loaded into a container directly or on pallets.

General Data

- Weight: 200 ~ 600g/m²
- Width: Max 2500mm
- Roll Length: To be specified

Typical Range

Technical Performance of Continuous Stand Mats		
Specification	RTM	Pultrusion
1. The content of alkali oxide (%)	≤ 0.8	≤ 0.8
2. The diameter of filament (um)	11 - 12	11 - 12
3. The type of treating compound	Silicane enhancement mode	Silicane enhancement mode
4. The content of treating compound (%)	0.7 ± 0.1	0.7 ± 0.1
5. Moisture (%)	≤ 0.2	≤ 0.2
6. Loss on Ignition (%)	3.5 ± 0.5	6 ± 1
7. Standard weights (g/m ²)	450 ± 10%	200 - 600
8. Width(mm)	1000 - 2500	1000 - 2500

9. The windage of standard weights(%)	Unit ±20; Average: ±12		Unit ±20; Average: ±12	
10. The solubility of styrene (s)	60 - 180		60 - 180	
11. The intensity of tension fracture	150mm × 200mm		150mm × 200mm	
	Portrait	Landscape	Portrait	Landscape
≤ 300g/m²	150N	40N	150N	40N
301 - 599g/m²	180N	60N	180N	60N
≥ 600g/m²	210N	80N	210N	80N

- This Continuous Strand Mat is different to other types. You put the mat into the mould directly, not into the resin pool.