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Carbon Fiber Surface Mat

Product Feature

- The product is **carbon fiber surface mat** produced with a unique wet process.
- **Product details are customizable**, such as fiber & binder type, the specific performance of mat and etc.
- With **uniform fiber distribution** and **fast infiltration**, the product is suitable for all major composite manufacturing process and is compatible with the vast resin systems.

The carbon fiber surface mat has the characteristics of a general carbon material

1. High strength and modulus.
2. Great friction resistance.
3. Excellent electrical performance, heat resistance and thermo conductivity.
4. Light weight and high specific strength.



Main application

- **Electronic component**
 - Electromagnetic shielding.
 - Static elimination.
 - electric heating products.
- **Carbon fiber reinforced plastic (CFRP)**
 - building materials.
 - anti-corrosion layer of petrochemical storage tank, pipeline, chemical container and etc.
 - Leisure & sports equipment
- **Environmental dust removal filter.**

Basic Parameters

Fiber Type: Polyacrylonitrile-based carbon fiber

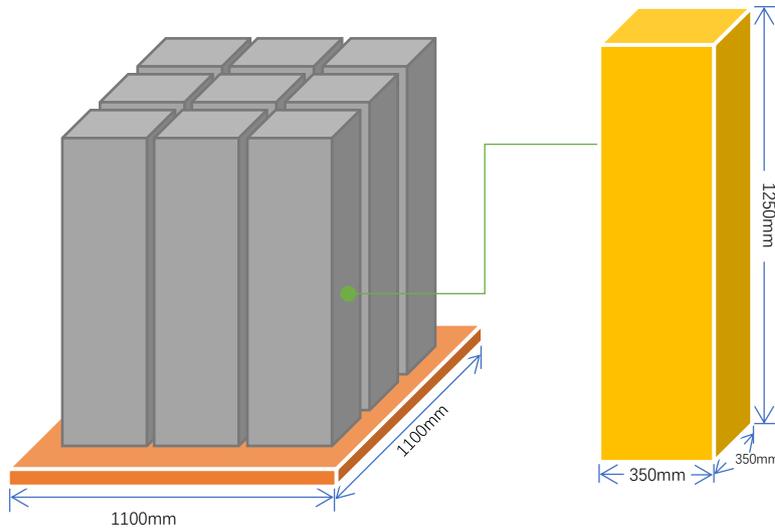
Single fiber length: 6mm **Single fiber diameter:** 6-7μm

Binder: Thermoplastic type/ Thermoset type

Item Code.	Area Weight (g/m ²)	Surface Resistance (Ω)	Binder Content (%)	Moisture Content (%)	Tensile Strength (N/50mm)	Thickness mm
CFSM-005	5	≤11	10±2	≤0.3	≥5	0.06±0.01
CFSM-008	8	≤11			≥7	0.08±0.01
CFSM-010	10	≤9			≥11	0.10±0.01
CFSM-015	15	≤7			≥16	0.15±0.01
CFSM-020	20	≤6			≥21	0.20±0.02
CFSM-030	30	≤4			≥31	0.30±0.02
CFSM-050	50	≤3			≥49	0.50±0.02

Packaging

Conventional packaging (e.g. 30gsm*1m*300m/roll):



Carton Size: 350*350*1250mm

Pallet Size: 1100*1100*140mm

Other specifications of cartons and trays can be customized.

Transportation

Recommended to place vertically.

Avoid moisture, squeezing, and stacking heavy objects during transportation.

Appropriately reducing the width of the rolls at the container entrance for packing need.



Storage & Use

Storage:

Store in a dry, ventilated place to avoid moisture.

Sufficient storage space should be reserved to avoid squeezing and stacking.

Recommended period of use : within 6 months.

The information provided in this data sheet is based solely on our knowledge gained in the laboratory and in practice. Most parameters can be adjusted through product adjustment to meet the needs of use.