

Product family description

OC™ Continuous Filament Mats are continuous fiber, non-woven mats containing an insoluble binder for unsaturated polyester (UP) and polyurethane (PU) compatibility in unfilled or filled resin systems. They are particularly suitable for compression molded electrical and non-electrical laminates, and for use in the pultrusion process.

Pultruded shapes made with OC Continuous Filament Mats have outstanding transverse- and random-direction strength. These excellent mechanical properties, coupled with good electrical properties provided by polyester resins and enhanced by Owens Corning reinforcements, have made pultruded shapes attractive to the electrical apparatus, utility and transportation industries. Ladder rails, rapid-transit third-rail covers and high-voltage transmission line equipment are examples of applications.

Global quality

Owens Corning's System Thinking™ approach is targeted at meeting ongoing customer demands for higher productivity, higher value products and excellent support. OC Continuous Filament Mats are part of this system. They provide high-quality, global products produced with a global process to meet your performance and cost requirements. Owens Corning's worldwide technical and marketing network will provide you with products and services that continue to meet your needs.

To help ensure the quality of your products, Owens Corning produces OC Continuous Filament Mats globally with the most advanced equipment, innovative surface chemistry and a major commitment to statistical process control. The Quality Management Programs of all Owens Corning manufacturing facilities are certified as meeting the requirements of ISO 9002.

OC Continuous Filament Mats are appropriate for applications with global or regional specifications, and are optimized to meet your cost and performance needs.

Features

- Roll slitting
- Wet-through/porosity
- Excellent wet-out
- Conformability
- Surface smoothness
- Mat strength
- Manageable

Benefits

- Mat rolls can be easily slit into various widths
- Offers little resistance to resin flow to allow for easy and complete resin impregnation, resulting in high line speeds
- Improves the ability to coat individual glass filaments and strands
- Conforms to difficult shapes without causing wrinkles or leaving resin-rich radii, which may cause laminate cracking
- Offers excellent laminate surface conformity measurement
- Resists being pulled apart under tension during impregnation and molding
- Can be unrolled, cut and conveyed to the mold without losing its integrity



Available products

Product reference	Weight		Resin compatibility	Process
	Gr/sm	Oz/sq.ft		
M8610	300, 375, 450, 600, 750, 900	1.00, 1.25, 1.50, 2.00, 2.50, 3.00	UP, PU	Press molding
M8643	300, 450, 600, 900	1.00, 1.50, 2.00, 3.00	UP, PU	Pultrusion

Packaging

OC Continuous Filament Mat is wound on cardboard cores. The resulting rolls are individually wrapped in polyethylene; the ends are not sealed. The pallet is covered with a cap and stretch-wrapped.

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SYSTEM THINKING™
Makes the Difference