

Chopped Strand Mat: 1 1/2 ounce Fabric



Overview: This material is just what the name implies. The fibers are typically 3-4 inches in length and are randomly oriented. Chopped strand mat is not very strong material because of the short fiber length. However, it is isotropic. This means that it is equally strong in all directions. Mat and fillers are the only composite reinforcements exhibiting this trait.

This is the least expensive reinforcement form and is thus the most widely used. It is suitable for molds and part production. The random orientation effectively hides fabric print through of gel coats and makes molds which are equally stiff in all directions. It should be noted that chopped mat is only compatible with polyester resin. Chopped strand fiberglass mat is the most extensively used reinforcement in the fiberglass industry. The advantages of mat versus fabrics are their low cost and how easily they conform to contours. They do not offer the strength characteristics of fabrics, but are ideal for low cost, rapid build ups. Meets MIL-M-43248C, Type 1, Class 2, Grade A.

Chopped strand mat contains a binder which prevents proper bonding with any epoxy resins. Use our polyester or vinyl ester resins with chopped strand mat.

Available in 1, 3, and 5 yard packages, custom cuts starting at 10 yards, and full rolls.

General Properties for Chopped Strand Mat:

- Quick wetting and rapid air release, which allows for maximum molding productivity and reduced cost.
- Excellent weight uniformity allows consistent customer part quality
- Fine strand and superior chemistry minimizes print-through, resulting in attractive surface finishes with excellent laminate clarity.
- Superb dry mat integrity enhances productivity and reduces material losses during unrolling, cutting and piece handling.
- Small diameter, very dense rolls are safer and allow for more efficient material handling

Specific Product Properties:

Weave Pattern	Mat
Weight	1.5 oz/foot ²
Thickness	0.045 inches

Resin Compatibility:

Part Number	Polyester Resin	Vinyl Ester Resin	System 2000 Epoxy
248	x	x	
250	x	x	
251	x	x	
260	x	x	
492	x	x	

An "X" means the fabric is compatible with the resin.

The compatibility is based on Fibre Glast Developments resin's only.