

E Glass Chopped Strand Mat (EMULSION)

Introduction

E-glass chopped strand mat is made from fiberglass strands chopped to length and bonded together with emulsion binder. Chopped strand mat is used primarily for hand lay-up processes, filament winding and press molding of FRP products. Typical products include bathroom accessories, pipe, building materials, automobiles, furniture and other FRP products.

Product Characteristics

1. No fuzz, and low dirt, impurity and other stains.
2. Even thickness,
3. Good covering and degassing properties.
4. High mechanical strength and high wet strength retention.

Technical specifications

R ₂ O Content	<0.8%
Compatible Resin	Polyester
Fiber Diameter	13μm
Moisture Content	≤0.2%
LOI	3~5%
Binder type	polyurethane emulsion
Styrene Solubility	<50 seconds
Speed of wet-out	<180seconds

Polyester Laminate Strength Properties*

Tensile Strength	126Mpa	Tensile Modulus	10.4Gpa
Elongation	1.6%	Bending Strength	284Mpa
Bending Modulus	11.9Gpa	Resin content	59.5%

*Data for reference only – not for technical specifications.

Products Specifications

Model No.	EMCL225	EMCL300	EMCL450	EMC600
Unit Weight(g/m ²)	225	300	450	600
Roll Width(mm)	965,1000,1040,1270,1524,1778 and 2080			

*Reference data only-not for technical specifications

Packaging

Woven roving products are rolled around a mandrel with an inside diameter of 10cm. Each roll has an outside diameter of APPROX30cm. The rolled products are wrapped with plastic bags and placed in hard cardboard boxes. Twelve (12) boxes are placed vertically in a 96cm×128cm pallet, which is wrapped with plastic shrink-wrap. Box shipment is available.

Roll Weight Specifications (Unit: Kg)

Roll Width(mm)	965	1000	1040	1270	1524	1778	2080
EMCL300/450/600	33	35	36	44	53	62	73

TECHNICAL DATA SHEET

PRODUCT NAME	E GLASS CHOPPED STRAND MAT(EMULSION)	
SPECIFICATION	CSM300-1250	
TEST ITEM	STANDARD NO.	STANDARD VALUE
DENSITY(G/M2)	GB6007	300+/-30
LOSS ON IGNITION(%)	GB9914	5+/-0.5
MOISTURE CONTENT(%)	GB11966	<=0.50
CHOPPED LENGTH (MM)	GB6007	50
WIDTH(MM)	N/A	1250

TECHNICAL DATA SHEET

PRODUCT NAME	E GLASS CHOPPED STRAND MAT 450GSM(EMULSION)	
SPECIFICATION	EM450-1250	
TEST ITEM	STANDARD NO.	STANDARD VALUE
FILAMENT DIAMETER(um)	N/A	N/A
NOMINAL TEX (Tex)	N/A	N/A
BREAKAGE STRENGTH(N)	N/A	N/A
LOSS ON IGNITION(%)	GB9914	4-5.5
TEX VARIANT RATE(%)	N/A	N/A
MOISTURE CONTENT(%)	GB11966	<=0.5
STIFFNESS (mm)	N/A	N/A
CHOPPED LENGTH(mm)	GB5434	50MM
CHOPPED RATE (%)	N/A	N/A
DENSITY(g/m2)	GB6007	450+/-10%
WIDTH(mm)	N/A	1020 and 1250

TECHNICAL DATA SHEET

PRODUCT NAME	E GLASS STITCH CHOPPED STRAND MAT 900G/M2	
SPECIFICATION	EM900-160SBF	
TEST ITEM	STANDARD NO.	STANDARD VALUE
FILAMENT DIAMETER(um)	N/M	N/M
NOMINAL TEX (Tex)	N/M	N/M
BREAKAGE STRENGTH(N)	ISO3341	WARP>=2650 WEFT>=2150
LOSS ON IGNITION(%)	ISO1887	0.95+/-0.25
TEX VARIANT RATE(%)	N/M	N/M
MOISTURE CONTENT(%)	ISO3344	<=0.3
STIFFNESS (mm)	N/M	N/M
CHOPPED LENGTH(mm)	N/A	N/A
CHOPPED RATE (%)	N/A	N/A
DENSITY(g/m2)	N/M	900+/-72
WIDTH(mm)	N/M	1,600