

**M144 POWDER BOUND GENERAL PURPOSE CHOPPED STRAND MAT****1- PRODUCT DESCRIPTION**

M144 is a randomly oriented chopped strand mat composed of chopped strands coated with a silane coupling agent and bonded together in mat form using a small amount of highly soluble polyester powder.

This product is manufactured using E glass fibre.

**2- USE**

M144 is designed to be compatible with polyester, epoxy and vinylester resins and used both as gel coat backup and standard laminate reinforcement for most contact moulding applications where quick wetting, rapid air release, good conformability and low resin consumption are desired.

**3- AVAILABLE STANDARD PRODUCTS**

- a) Weight (g/m<sup>2</sup>)  
300, 450 and 600
- b) Width (mm)  
1300 untrimmed, trimmed widths are available subject to a minimum order quantity of 2000kg.

**4- PRODUCT PROPERTIES AND TEST METHODS**

PROPERTY	MAT WEIGHT	SPECIFICATION			TEST METHOD (3)
		MIN	NOM	MAX	
Mass per Unit Area (m <sup>2</sup> ) (1)	300	276	300	324	SABS 419 6.2
	450	414	450	486	
	600	552	600	648	
SOLIDS ( % ) (2)	300	2.4	3.2	4.0	CSMTM – 3.7
	450	2.2	3.0	3.8	
	600	2.0	2.5	3.6	
TENSILE STRENGTH (Kg/0.1m <sup>2</sup> )	300	20	30	50	CSMTM – 3.10
	450	22	32	52	
	600	25	35	55	

- (1) Mat weight includes glass and binder.  
(2) The solids % includes the binder of the mat and the sizing of the glass filaments.  
(3) Available when requested.



## **5 - VISUAL REQUIREMENTS**

When the mat is examined visually by transmitted fluorescent light, it shall be free from visible moisture and discolouration, and in any 7 consecutive meters of mat, the number of dirt spots (such as grease, oil and similar substances) shall not exceed the values given below.

DIAMETER (MM.)	>6	<6 BUT >1.5	<1.5
MAXIMUM NUMBER	1	5	43

## **6 – PREPARATION FOR SHIPMENT**

A) Roll-up

The mat is wound on a 75mm inside diameter carton tube to an overall outside diameter of approximately 340mm.

B) Wrap-in rolls

On occasion it will be necessary to wrap in rolls. Wrapped in rolls will consist of 3 pieces only, the shortest of which will have minimum length of 10 meters. The location of the wrap will be flagged by a strip of paper.

C) Roll length and weight

Nominal mat weight (gsm)	Approx. nominal full roll length (m)	Approx. nominal full roll weight (Kg's)
300	128	50
450	85	50
600	64	50

D) Standard packaging method

The mat is wrapped in cling-wrap prior to insertion in a heavy duty polythene tube. Each roll is labelled on the outside with the following information: Product name, grammage, roll length, roll width, roll weight and batch number.

## **7- STORAGE CONDITIONS**

Unless otherwise specified, it is recommended to store glass fibre products in a cool dry area. Glass fibre products must remain in their original packaging material until just prior to its use.

If these conditions are respected, glass fibre products should not undergo significant changes when stored for extended periods of time.

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