



Nonwoven fabric made from recycled carbon fibre

Nomenclature

G-TEX M-SM45-200-1200

G-TEX M	M	SM45	200	1200
Brand name	Denotes nonwoven made from recycled carbon fibre	Denotes Fibre type; SM45 signifies: Standard Modulus with Strength between 4-5GPa	Denotes the fabric areal weight (gsm)	Denotes the fabric width (mm)

Product Range

DESCRIPTION	VALUES
Fibre Type	Standard Modulus: SM45 and Intermediate Modulus: IM56
Areal weight [gsm]	50 - 500*
Roll width [mm]	500 - 2500*
Roll length [m]	25 - 100**

*Contact Sales for other requirements

** Dependent on Areal Weight

Process Suitability

PROCESS	FIBRE VOLUME FRACTION (%)	MOULDABILITY	PROCESSING TIME
Prepreg Press Moulding	30 - 36	Excellent	Low
Prepreg Autoclave Moulding	22 - 28	Good	Medium-High
LCM	30 - 38	Very Good	Low
HP RTM	30 - 38	Good	Low-Medium
Vacuum infusion	14 - 18	Very Good	Medium
Wet Layup	8 - 12	Good	Medium

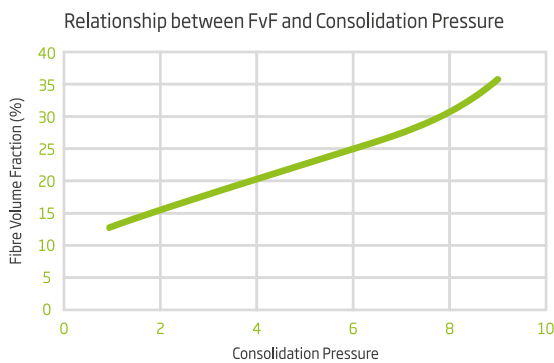
Typical Properties

G-TEX M-IM56-200-1500



PROPERTY	UNIT	TRANSVERSE	LONGITUDINAL
Tensile Strength	MPa	330	290
Tensile Modulus	GPa	35	25
Compression Strength	MPa	330	270
Compression Modulus	GPa	30	20
Flexural Strength	MPa	500	370
Density	g/m ³	1.51	

Data Normalised to 30% VF



Services Provided

SERVICE	INFORMATION
Standard	Production of G-TEX M Nonwoven rolls
Prepreg	Independent suppliers in Italy and Spain
Kit Cutting	Please contact Sales

Storage and Shelf Life

Storage life: 24 Months	Storage Style: Once outside the packaging, roll cores must be supported and laid flat to avoid telescoping and flattening.
Packaging: Sealed in polythene bag	Temperature and Humidity: Store in a cool and dry environment

Health and Safety

Gen 2 Carbon certifies that our recycled carbon fibre products are compliant with the **European Union Regulation (EC) 1907/2006** governing the Registration, Evaluation, Authorization and Restriction of Chemicals (**REACH**) and do not contain substances above 0.1% weight of a Substance of Very High Concern (**SVHC**) listed in Annex XIV. Advised precautions for safe handling are general PPE (gloves, safety goggles, mask and protective clothing).

Contact

gen2carbon.com / info@gen2carbon.com / +44 1902 406010

Gen 2 Carbon Ltd, Cannon Business Park, Gough Road, Coseley, West Midlands, United Kingdom, WV14 8XR