



Nonwoven fabric made from recycled carbon fibre and mixed with thermoplastic fibres

Nomenclature

G-TEX TM PP/60-SM45-200-1200

G-TEX TM	TM	PP/60	SM45	200	1200
Brand name	Denotes nonwoven made from recycled carbon fibre and thermoplastic fibre	Denotes type and weight% of thermoplastic; PP/60 signifies: inclusion of PP fibre at 60wt%	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
Thermoplastic Type (TM)	PP, MAPP, PA6, PA66, PET, PC, PPS, PEI*
Thermoplastic contents (wt%)	60 - 80
Fibre Type	Standard Modulus: SM45 and Intermediate Modulus: IM56
Areal weight [gsm]	100 - 500*
Roll width [mm]	500 - 2500*
Roll length [m]	25 - 100**

*Contact Sales for other requirements

** Dependent on Areal Weight

Process Suitability

PROCESS	SUITABILITY
Press Moulding: Cycled	Excellent
Press Moulding: Hot Stamping	Excellent
Moulding: Low Pressure	OK
Autoclave	Good

Please contact Sales to discuss your application

Typical Properties

G-TEX TM MAPP/60-IM56-200-1500

PROPERTY	UNIT	TRANSVERSE	LONGITUDINAL
Tensile Strength	MPa	300	200
Tensile Modulus	GPa	30	20
Compression Strength	MPa	190	170
Compression Modulus	GPa	25	20
Flexural Strength	MPa	300	210
Density	g/m ³	1.06	

Data Normalised to 30% VF

Services Provided

SERVICE	INFORMATION
Standard	Production of G-TEX TM Nonwoven rolls
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).