

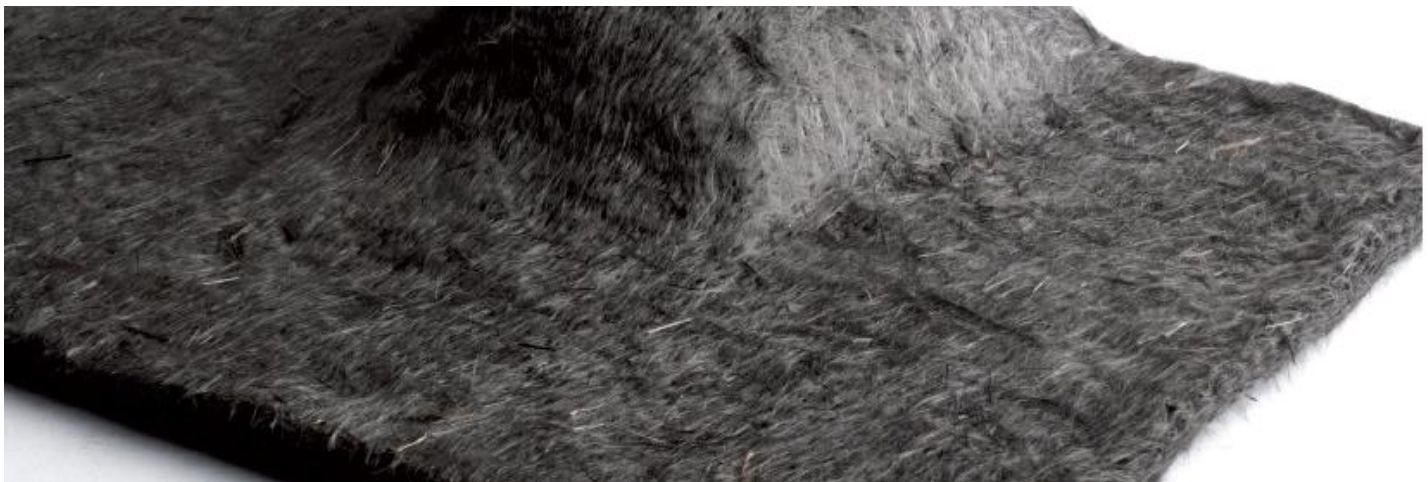


ELG Carbon Fibre Ltd.
RECYCLED CARBON FIBRE

CARBISO™



Nonwoven Mats



Carbiso™ M is a range of nonwoven mats made from recycled carbon fibre that provide cost and environmental benefits in composite manufacturing processes.

Carbiso™ M nonwoven mats are ideally suited for closed mould processes and can also be used for the manufacture of intermediate products such as preregs and sheet moulding compounds.

Carbiso™ M nonwoven mats can be used with most thermoset and thermoplastic matrix systems.



Carbiso™ M Nonwoven Mats

Nomenclature for Carbiso™ M products

Example:

CARBISO™ M - SM45D- 100-1000

<p>BRAND NAME</p> <p>CARBISO™</p>	<p>PRODUCT TYPE</p> <p>M</p> <p>Nonwoven mat made from recycled carbon fibres</p>	<p>FIBRE CLASSIFICATION</p> <p>SM45D</p> <p>Standard modulus fibre with a strength of 4-5Gpa, dry fibre</p>	<p>DIMENSION</p> <p>100-1000</p> <p>Areal weight of 100gsm, 1000mm width</p>
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For additional details please see ELG Technical Note 1702: Product Nomenclature

Material data of Carbiso™ M

Typical properties	Units	Values
Fibre length	mm	40-90
Areal weight	kg/sqm	100-500
Fibre weight tolerance	%	+/- 10
Roll length* (200g/sqm)	m	50-150
Roll Diameter* (200g/sqm)	mm	300-900
Roll Width	mm	500-2600
Core ID	mm	76.2

*Depending on areal weight of material, roll length and diameter may vary e.g 200gsm = 50LM, 30cm dia.



Material properties of Carbiso™ M

Typical properties	Units	Values
Tensile Modulus (Weft)*	GPa	35
Tensile Modulus (Warp)*	GPa	23
Tensile strength (Weft)*	MPa	430
Tensile strength (Warp)*	MPa	286
Compression strength (Weft)*	MPa	31
ILSS (Weft)*	MPa	55
ILSS (Warp)*	MPa	38

*Laminates made using liquid compression moulding at 30% fibre volume fraction

The information presented in this document is provided in good faith, but no warranty is given or is to be implied regarding its accuracy or relevance to any particular application. Users must satisfy themselves regarding the suitability and safety of their use of the information and products in the application concerned.

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