

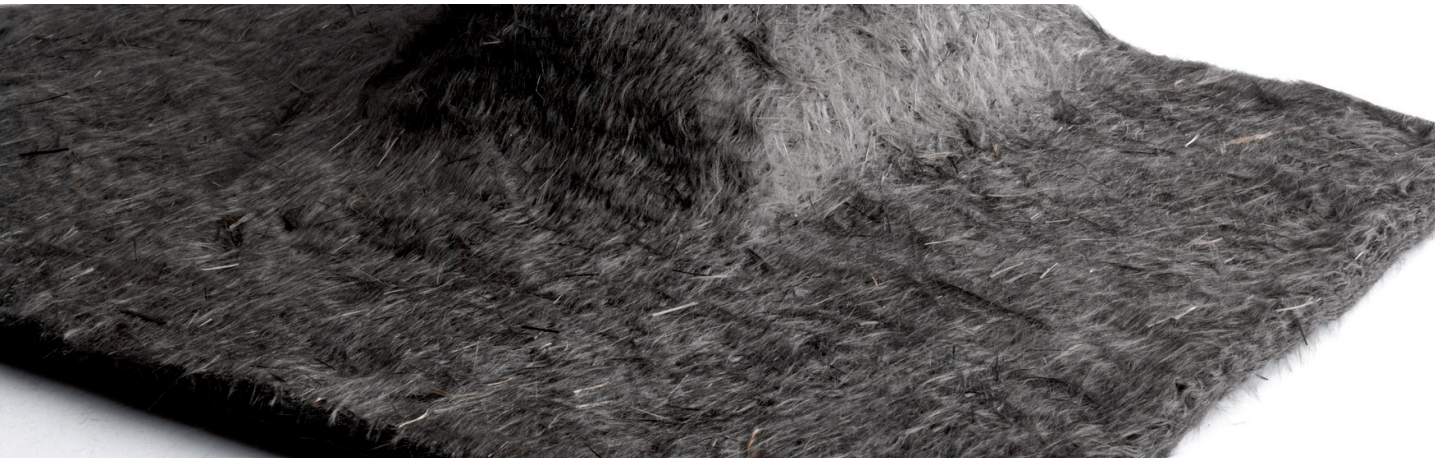


ELG Carbon Fibre Ltd.
RECYCLED CARBON FIBRE

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 prepregs and sheet moulding compounds.

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



Material data of Carbiso™ M

| Typical properties | Units | Values |
|--------------------------|-------|------------|
| Fibre length | mm | 40 – 90 |
| Areal weight | g/sqm | 100 – 500 |
| Fabric weight tolerance | % | ±8 |
| Roll length (500g/sqm) | m | 30 |
| Roll diameter (500g/sqm) | mm | 1000 |
| Roll width | mm | 500 – 2700 |
| Core ID | mm | 152.4 |

Mechanical properties of Carbiso™ M

| Typical properties | Units | Values |
|-------------------------------|-------|--------|
| Tensile modulus (Weft) * | GPa | 32 |
| Tensile modulus (Warp) * | GPa | 27 |
| Tensile strength (Weft) * | MPa | 263 |
| Tensile strength (Warp) * | MPa | 245 |
| Compression strength (Weft) * | MPa | 361 |
| ILSS * | MPa | 42 |

* 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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