



ELG Carbon Fibre Ltd.
RECYCLED CARBON FIBRE

CARBISO™ MF Milled Fibre



Carbiso™ MF is recycled carbon fibre milled to 80µ or 100µ made from standard modulus fibre.

Milled fibres are used in demanding applications to increase mechanical properties and provide tailored electrical and thermal conductivity of the chosen matrix.

The milled carbon fibres have excellent dispersibility as the fibres are unsized and are compatible with most thermoset and thermoplastic matrices.



Carbiso™ MF Milled Fibre

Nomenclature for Carbiso™ MF products

Example:

CARBISO™ MF SM45R-100

BRAND NAME	PRODUCT TYPE	FIBRE CLASSIFICATION	DIMENSION
CARBISO™	MF Milled Fibre	SM45R Standard modulus fibre with a strength of 4-5Gpa, reclaimed unsized fibre	06-50 100 micron average fibre length

For additional details please see ELG Technical Note 1702: Product Nomenclature

Material data of Carbiso™ MF

Typical properties	Units	MF SM45R-80 / MF SM45R-100
Carbon fibre content	%	>98
Fibre diameter	µm	7
Fibre length	µm	80/100
Sizing Content	%	0
Bulk Density	g/l	400
Metal Contamination*	g/1000g	<0.5/1000
Packaging (Pillow bag)	kg	17.5
Tensile Strength**	MPa	4150
Tensile Modulus**	GPa	230-255

* Our milled fibres have passed through our metal detection and separation systems, metal contamination figures are a guide.

** Mechanical properties quoted are values measures by impregnated strand tests in accordance with ISO:ASTM D4018 – 17

Alternative fibre lengths available on request

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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