



ELG Carbon Fibre Ltd.
RECYCLED CARBON FIBRE

CARBISO™



Chopped Fibre



Carbiso™ CT is precisely chopped carbon tow and is available in 6mm and 12mm lengths made from standard or intermediate modulus fibres.

Precision chopped fibres offer higher structural and electrical conductive properties compared to milled fibres. Our chopped tow is ideal as a reinforcing material for:

- Thermoplastic injection moulding compounds
- Cement reinforcement
- Coatings
- Elastomers

The fibres can be used with most thermoset and thermoplastic matrix systems



Carbiso™ CT Chopped Fibre

Nomenclature for Carbiso™ CT products Product Type

Example:

CARBISO™ CT IM56D-06-24

<p>BRAND NAME</p> <p>CARBISO™</p>	<p>PRODUCT TYPE</p> <p>CT</p> <p>Standard Chopped Tow</p>	<p>FIBRE CLASSIFICATION</p> <p>IM56D</p> <p>Intermediate modulus fibre with a strength of 5-6Gpa, sized dry fibre</p>	<p>DIMENSION</p> <p>06-24</p> <p>24K tow chopped to 6mm</p>
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For additional details please see ELG Technical Note 1702: Product Nomenclature

Material data of Carbiso™ CT products (sized)

Typical properties	Units	CT IM56D-06-24/ CT IM56D-12-24	CT SM45D-06-24/ CT SM45D-12-24
Fibre diameter	µm	5	7
Fibre density	kg/m ³	1800	1800
Fibre length	mm	6/12	6/12
Sizing Content	%	4	<1.5
Metal Contamination*	g/1000g	<0.1	<0.1
Packaging (Pillow bag)	kg	15	15
Tensile Strength**	MPa	5000	4150
Tensile Modulus**	GPa	262-290	230-255

* Our precision chopped fibres have passed through out 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 smaller tow sizes are available for standard modulus fibre types on request.



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Carbiso™ can be pyrolysed after chopping to remove the sizing on the fibres. This preserves the length distribution in the material but it does increase the bulk density as the absence of sizing allows the fibre to separate.

Material data of Carbiso™ CT products (desized)

Typical properties	Units	CT IM56R-06-24/ CT IM56R-12-24	CT SM45R-06-24/ CT SM45R-12-24
Fibre diameter	µm	5	7
Fibre density	kg/m ³	1800	1800
Fibre length	mm	6/12	6/12
Sizing Content	%	-	-
Metal Contamination*	g/1000g	<0.1	<0.1
Packaging (Pillow bag)	kg	15	15
Tensile Strength**	MPa	5000	4150
Tensile Modulus**	GPa	262-290	230-255

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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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