

Technical Data Sheet

Product features and properties CF *TRIM*
release: 03/2014

Trade Name HT – AN – 07

Product Family CF_{TRIM}

Characteristics

HT – AN – 07 is a PAN-based chopped high performance fiber. Cut in length of 6, 12, 18 up to max. 48 mm the „high tenacity“ (HT = high strength) fiber leads to excellent mechanical properties especially in various matrix systems. The fiber's virgin sizing is polyurethane based.

Product benefits

- High strength
- Low density
- Good electric and thermal conductivity
- Very high stiffness
- Excellent fatigue and creep resistance
- Good chemical resistance

Reprocessing method

CF _{TRIM} grades are reclaimed carbon fiber products based on utilizing first class quality post-industrial excess carbon fibers. CF _{TRIM} fibers have not been heat treated or chemically altered. They keep virgin equal properties while carefully cut into lengths of 6, 12 or 18 mm within tolerances of +/- 0,5 mm.

Application qualification

Best for improving mechanical properties in the thermoplastic and thermoset matrices. Because of the excellent electric conductivity it is best for housings of electrical parts.

Health and safety

Carbon fiber products do not require hazardous product labelling. Take measures to prevent the build up of electrostatic charge. Avoid dust formation. Carbon fibers based on filaments with diameters >4µm are not respirable. (please see MSDS)

Carbon fiber products are not considered as hazardous goods by transport regulations. They are not part of the hazardous classification listed in the international regulations.



Properties (guideline)

Fiber

Filaments	[K]	12K
Tow's yield	[tex]	800
Filament diameter	[µm]	7
Density	[g/cm³]	1,76
Sizing amount	[%]	0,6 – 1,0

Mechanical data

Tensile strength	[Mpa]	4.200
Tensile modulus	[GPa]	240
Strain	[%]	1,8
Specific heat capacity	[J/kgK]	710
Heat coefficient	[W/mK]	10
Thermal expansion coefficient	10 ⁻⁶ /K]	-0,1
Specific electrical resistance	[Ω cm]	1,6x10 ⁻³

Packaging

PE bags	[kg]	20
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