

TECHNICAL DATA SHEET

Engineering plastic type CF

ESD safe replaceable fiber tip tweezers provide durable tip materials with self-aligning replacement tips and anti-magnetic stainless steel handles for precision handling applications.

General notes:

- » PA66/CF30 polyamide 66 reinforced with 30 wt% carbon fibre
- » ESD safe material
- » Low friction, self lubricating properties
- » Excellent wear and abrasion resistance
- » High mechanical strength and toughness
- » Very high rigidity, excellent tensile and flexural strength (bend strength), fatigue and creep resistance
- » Heat stabilized, 130°C (continuos use) 190° (short time)
- » Very low coefficient of linear thermal expansion
- » Good chemical resistance (oils, grease, fuels, non polar solvents)
- » Lead-free

Applications include handling of sensitive components and devices (electronic components, micro-mechanical parts, glass and ceramic substrates, etc.) where non-scratching is critical. Popular in standard ESD and general electronics assembly and lab applications.

NOTE: Not resistant to strong acids, alkalis, hot water or steam.

Mechanical properties

Flexural modulus +23°C	17000 MPa	ASTM D 790
Flexural modulus +60°C	12000 MPa	ASTM D 790
Flexural modulus +90°C	9800 MPa	ASTM D 790
Flexural modulus +120°C	8000 MPa	ASTM D 790
Tensile strength +23°C	210 MPa	ISO 527
Tensile strength +60°C	159 MPa	ISO 527
Tensile strength +90°C	134 MPa	ISO 527
Tensile strength +120°C	117 MPa	ISO 527
Rockwell hardness M	>100	ASTM D 785
Izod-Impact strength (notched) +23°C	70 J/m	ASTM D 256
Charpy-Impact strength (unnotched) +23°C	30 kJ/m ²	DIN 53453

Thermal properties

Temp. of defl. under load (1.80 MPa)	256 °C	ASTM D648
Temp. of defl. under load (0.45 MPa)	260 °C	ASTM D648
Vicat softening temperature (50°C/h 50N)	254 °C	ISO 306
Coef. of lin. therm expansion, normal	2,80 E-5/°C	ASTM D 696
Continuous Use Temperature	130°C	20'000 h
Short Time Temperature	190°C	

This document contains information based on average values as obtained from the results of laboratory tests and observations made on the material. Ideal-tek SA declines all responsibility from an improper use of the product described in this document.

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Electrical properties

Surface resistivity

10² Ohm

Comparative tracking index

100 Volts

IEC 112

Volts

1000-10 V

Other properties

 Density
 1.28 g/ccm
 ISO 1183

 Water absorption in water 23°C (24h)
 0.60%
 ISO 62

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