

TECHNICAL DATA SHEET

High-performance plastic type CP

General notes:

- » **PEEK** polyetheretherketone reinforced with carbon nano
- » very hard, rigid, high tensile and flexural strength, very high wear resistance
- » high heat capability (260-300°C), good dimension stability, low thermal linear expansion coefficient
- » excellent resistance to chemicals and aggressive agents, excellent resistance to thermal ageing
- » ESD-safe material 10E⁶
- » typical applications include handling of components in cleaning/chemical/assembly processes also at high temperature (soldering).

Mechanical properties

Flexural modulus +23°C	21400 MPa	ISO 178 ASTM D 790
Flexural strength +23°C	350 MPa	ISO 178 ASTM D 790
Tensile modulus +23°C	24000 MPa	ISO 527 ASTM D 638
Tensile strength +23°C	190 MPa	ISO 527 ASTM D 638
Izod - Impact strength (notched) +23°C	65 J/m	ISO 180/4A ASTM D 256

Thermal properties

Temp. of defl. under load (1.80 MPa)	300 °C	ISO 75 ASTM D648
Continuous Use Temperature	260°C	20'000 h
Short Time Temperature	300°C	

Electrical properties

Surface resistivity	10⁶ Ohm	
Decay time	< 0.2 sec	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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