

## ESD Plastic Probes (Magic Wand)



Ideal-tek's new line of multy purpose tool for electronics, chemistry and watch making. Magic Wand can be used as: probe for lead-free soldering operations, positioning aid tool for assembly operations, spatula for applying adhesives, dosing chemicals in labs, stirring rod for the preparations of adhesives, solutions,..., scraper to remove solder masking agents, rubber latex, adhesive coatings.

Different materials available

150 mm long

### ***ESD Plastic Probes leaflet***

MPT3.CP

**Squared body: flat large fine tip and flat fine sharp tip; Made of ESD PEEK (CP)**

#### **General notes**

- **PEEK** polyetheretherketone reinforced with carbon fibre
- 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
- 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:	10 <sup>6</sup> Ohm	
Decay time:	< 0.2 sec	1000-10 V

## Other properties

Density	1.39 g/ccm	ISO 1183
Water absorption in water 23°C (24h)	0.01%	ISO 62