

Electronics

Probes

MPT Probes (Magic Wand)



Ideal-tek's new line of multi 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

MPT3.SV **Squared body: flat large fine tip and flat fine sharp tip; Made of ESD Tflon (SV)**

General notes

- **PVDF** polyvinylidene fluoride carbon fibre reinforced
- excellent mechanical strength and toughness

- smooth surface
- heat stabilized, high heat capability, continuous use temperature up to 150°C
- high purity (clean room and medical devices approved, low extraction value)
- excellent chemical resistance to most aggressive substances (mineral and organic acid) and solvents (hydrocarbons, alcohols, halogenated), resistant to halogens
- outstanding resistance to hydrofluoric acid (40% conc., 90°C), nitric acid (50% conc., 90°C), hydrochloric acid (36% conc., 90°C)
- high abrasion resistant
- resistant to UV and nuclear radiation (sterilisation)
- ESD safe material, (avoid powder attraction, sparks generation, ignition sources)
- typical applications include handling of very scratch- and contamination-sensitive components, cleaning and etching processes.

Mechanical properties

Flexural modulus +23°C:	7500 MPa	ASTM D790
Tensile modulus +23°C:	8000 MPa	ASTM D638
Tensile strength +23°C:	120 MPa	ASTM D638
Flexural strength +23°C	150 MPa	ASTM D790
Shore D hardness:	82	ASTM D2240
Izod-Impact strength (notched) +23°C	110 J/m	ASTM D256

Thermal properties

Temp. of defl. under load (1.80 MPa):	158°C	ASTM D648
Temp. of defl. under load (0.45 MPa):	170°C	ASTM D648
Vicat softening temperature (50°C/h 50N):	172°C	ISO 306
Coef. of lin. therm expansion, normal:	7.00 E-5/°C	ASTM D696
Continuous Use Temperature	150°C	20'000 h
Short Time Temperature	200°C	

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Credits