

Electronics

Tweezers

7 Plastic Replaceable tips Tweezers

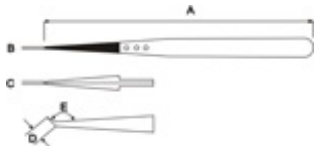


Very fine, curved tips

A 5" 130 mm

B 0.025" 0.6 mm

C 0.025" 0.6 mm



A7CF **Replaceable tips set**

General notes

- **PA66/CF30** polyamide 66 reinforced with 30 wt% carbon fibre
- heat stabilized
- very high rigidity, excellent tensile and flexural strength, fatigue and creep resistance
- low friction, self lubricating properties, excellent wear and abrasion resistance

- good heat capability
- good chemical resistance (oils, grease, fuels, non polar solvents); not resistant to strong acids, alkalis and hot water or steam
- ESD safe material, (avoid powder attraction, sparks generation, ignition sources).
- very low coefficient of linear thermal expansion
- typical applications include handling of sensitive components and devices (electronic components, micro-mechanical parts, glass and ceramic substrates, capillary, etc.)

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 785 |
| Charpy-Impact strength (unnotched) | 30 kJ/m ² | DIN 53453 |

Thermal properties

| | | |
|--|-------------|------------|
| Temp. of defl. uner load (1.80 MPa): | 256°C | ASTM D648 |
| Temp. of defl. uner 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 | |

Electrical properties

| | | |
|-----------------------------|---------------------|-----------|
| Surface resistivity | 10 ² Ohm | 100V |
| Comparative tracking index: | <100 Volts | IEC 112 |
| Decay time: | < 0.1 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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Credits