

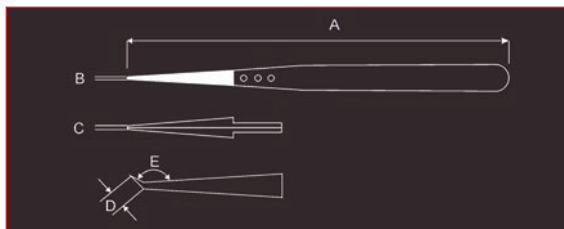
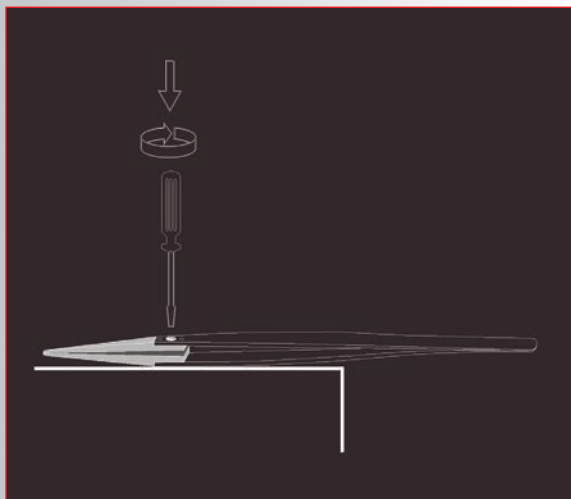
Plastic Replaceable Tip Tweezers

技术咨询与报价

电话: 18823303057 QQ:2104028976

The largest and the most precise plastic tweezers range all over the world. 30 years of experience in high engineering plastic materials. Choose the right tweezers in the right material for your success in your application. Technical data are available on pages 35-36 or at www.ideal-tek.com for more information and chemical data charts.

Replaceable kits come with 2 tips and 3 screws. The easiest and most precise replacement system available into the tweezers market.



00CFR.SA
00CPR.SA
00SVR.SA

A 5" 130mm - B 0.04" 1.0mm - C 0.08" 2.0mm



2ACFR.SA
2ACPR.SA
2ASVR.SA

A 5" 130mm - B 0.07" 1.8mm - C 0.04" 1.0mm



2ABCFR.SA
2ABCPR.SA
2ABSVR.SA

A 5" 130mm - B 0.07" 1.8mm - C 0.04" 1.0mm



2AXCFR.SA
2AXCPR.SA
2AXSVR.SA

A 5" 130mm - B 0.07" 1.8mm - C 0.04" 1.0mm



2WFCPR.SA

A 0.25" 6.6mm - B 0.41" 10.5mm - C 0.08" 2.0mm
D 0.14" 3.5mm - E 0.18" 4.5mm



4WFCPR.SA

A 0.47" 12mm - B 0.41" 10.5mm - C 0.08" 2.0mm
D 0.14" 3.5mm - E 0.18" 4.5mm



5CFR.SA
5CPR.SA
5SVR.SA

A 5" 130mm - B 0.02" 0.5mm - C 0.025" 0.6mm



5XCFR.SA
5XCPR.SA
5XSVR.SA

A 5" 130mm - B 0.02" 0.5mm - C 0.025" 0.6mm



7CFR.SA
7CPR.SA
7SVR.SA

A 5" 130mm - B 0.025" 0.6mm - C 0.025" 0.6mm



242CFR.SA
242CPR.SA
242SVR.SA

A 5" 130mm - B 0.055" 1.4mm - C 0.045" 1.2mm



246CFR.SA

A 5" 130mm - B 0.025" 0.6mm - C 0.03" 0.8mm
D 0.35" 9.0mm - E 45°



249CFR.SA
249CPR.SA
249SVR.SA

A 5" 130mm - B 0.09" 2.2mm - C 0.09" 2.2mm



259CFR.SA
259CPR.SA
259SVR.SA

A 5" 130mm - B 0.025" 0.6mm - C 0.04" 1.0mm

Replaceable Tip Sets Part Numbers

	00	2A	2AB	2WF	4WF	5	7	242	246	249	259
CF	A00CF	A2ACF	A2ABCF			A5CF	A7CF	A242CF	A246CF	A249CF	A259CF
CP	A00CP	A2ACP	A2ABCP	A2WFCP	A4WFCP	A5CP	A7CP	A242CP		A249CP	A259CP
SV	A00SV	A2ASV	A2ABSV			A5SV	A7SV	A242SV		A249SV	A259SV

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PLASTICS

Engineering plastic type CF

- **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, (avoids dust 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.)

High-performance plastic type CP

- **PEEK/CF30** polyetheretherketone reinforced with 30 wt% 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, aggressive agents and to thermal ageing
- **ESD safe** material, low surface resistivity (10^5 Ohm)
- typical applications include handling of components in cleaning/chemical/assembly processes also at high temperatures (soldering)

Engineering plastic type DG/DL

- **POM/GF30** acetal resin reinforced with 30 wt% glass fibre
- good tensile and flexural strength, fatigue and creep resistance
- low friction, good wear and abrasion resistance
- low moisture absorption
- good chemical resistance (oils, grease, fuels, organic solvents); not resistant to strong acids, alkalis and oxidizing agents; good hydrolytic resistance (hot water)
- insulating
- typical applications include handling of very scratch sensitive components

High performance plastic type SV

- **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 acids) 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** (avoids dust attraction, sparks generation, ignition sources)
- typical applications include handling of very scratch- and contamination-sensitive components, cleaning and etching processes

CERAMIC

Advanced Ceramic type MZ

- **Zirconia Toughened Alumina (ZTA)**
- a superior combination of high strength (from zirconia) and high hardness (from alumina)
- relatively low density
- no open porosity
- very hard surface, good abrasion and wear resistance
- good flexural strength and fracture toughness
- excellent thermal properties and high temperature stability
- extreme corrosion resistance, nearly chemically inert
- electrically insulative
- typically applications includes soldering processes, handling of components during thermal and chemical processes. Generally used when very rigid tips are required

TECHNICAL DATA SHEET

Engineering plastic type CF

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	<i>ASTM D 790</i>
Flexural modulus +60°C	12000 MPa	<i>ASTM D 790</i>
Flexural modulus +90°C	9800 MPa	<i>ASTM D 790</i>
Flexural modulus +120°C	8000 MPa	<i>ASTM D 790</i>
Tensile strength +23°C	210 MPa	<i>ISO 527</i>
Tensile strength +60°C	159 MPa	<i>ISO 527</i>
Tensile strength +90°C	134 MPa	<i>ISO 527</i>
Tensile strength +120°C	117 MPa	<i>ISO 527</i>
Rockwell hardness M	>100	<i>ASTM D 785</i>
Izod-Impact strength (notched) +23°C	70 J/m	<i>ASTM D 256</i>
Charpy-Impact strength (unnotched) +23°C	30 kJ/m²	<i>DIN 53453</i>

Thermal properties

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

Electrical properties

Surface resistivity	10² Ohm	<i>100V</i>
Comparative tracking index	<100 Volts	<i>IEC 112</i>
Decay time	< 0.1 sec	<i>1000-10 V</i>

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.

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

Thermal properties

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

Electrical properties

Surface resistivity	10⁶ Ohm	
Decay time	< 0.2 sec	<i>1000-10 V</i>

Other properties

Density	1.28 g/ccm	<i>ISO 1183</i>
Water absorption in water 23°C (24h)	0.60%	<i>ISO 62</i>

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