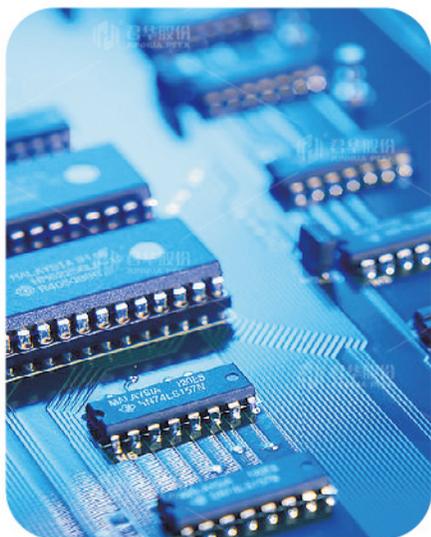
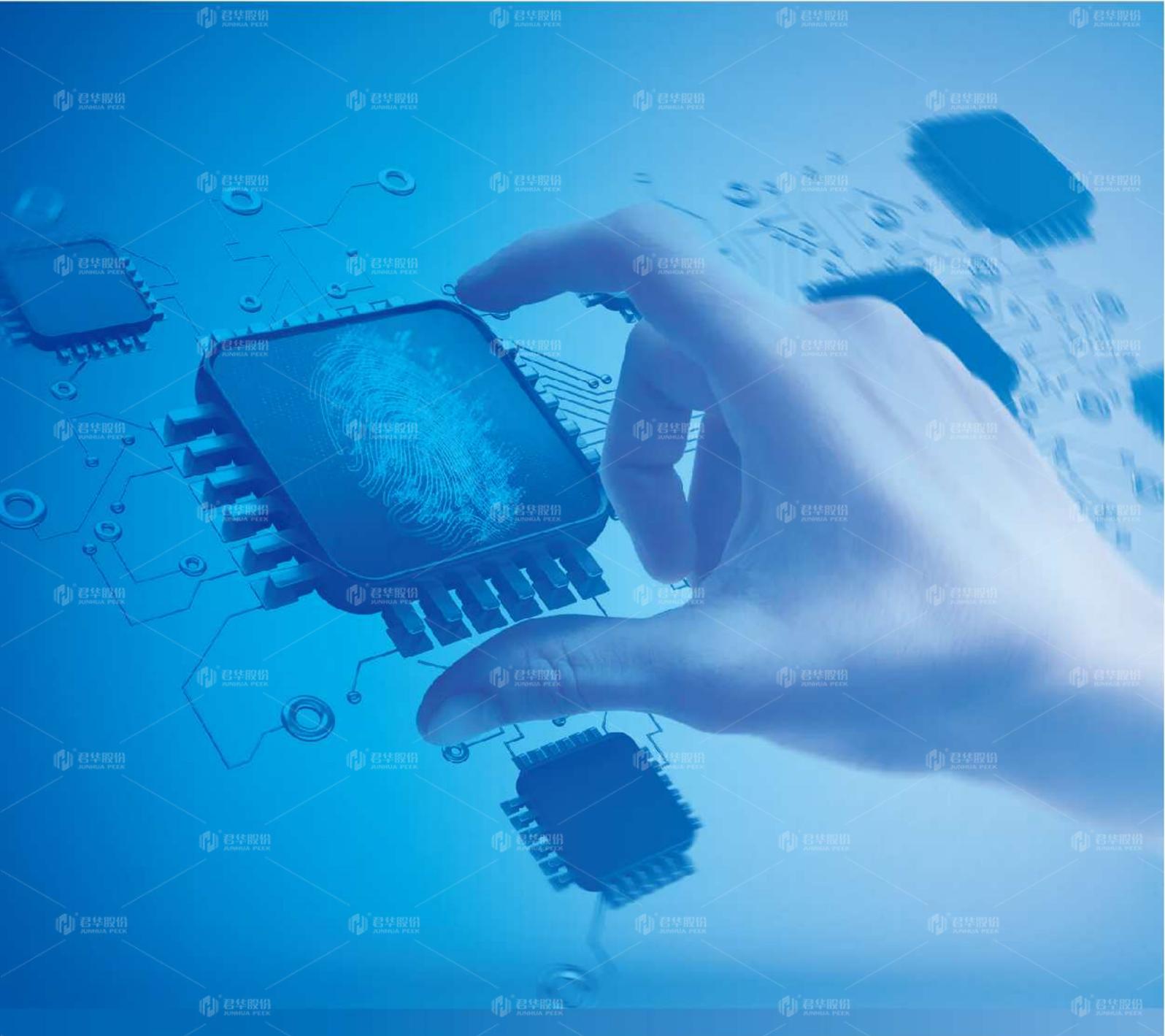


# PEEK

Applied to Semicon, PV, FPD.





# BUSINESS PHILOSOPHY

Honest Pragmatic Cooperation  
Innovation Win-win

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## Company Profile

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Jiangsu Junhua HPP Co., Ltd focuses on the application, development and production of PEEK, PPS, PI and other high-performance special polymer resins and profiles, and has formed a whole industry chain with PEEK resin raw material polymerization, modified granulation, continuous extrusion molding of profiles such as plate, rod and tube, injection molding and CNC processing of finished parts.



## Process Capability

---

- ◇ The formulation design and composite modification of special polymer materials such as PEEK and PI ;
- ◇ Making drawings, 3-D drawings according to products;
- ◇ Cooperate with customers to carry out the application development and production of new products of special polymer materials ;
- ◇ There are nearly two thousand kinds of injection molding molds for PEEK and PI parts in various industries ;
- ◇ Continuous extrusion production of PEEK plate, rod, tube and sheet ;
- ◇ Provide testing services for hardness, mechanical properties, friction and wear performance indicators.

# Enterprise Honor

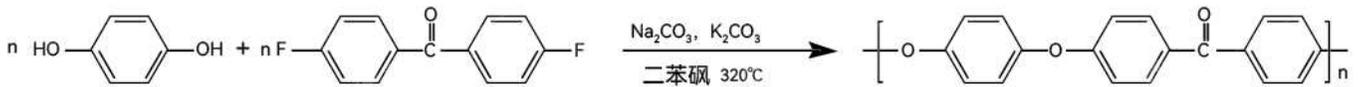
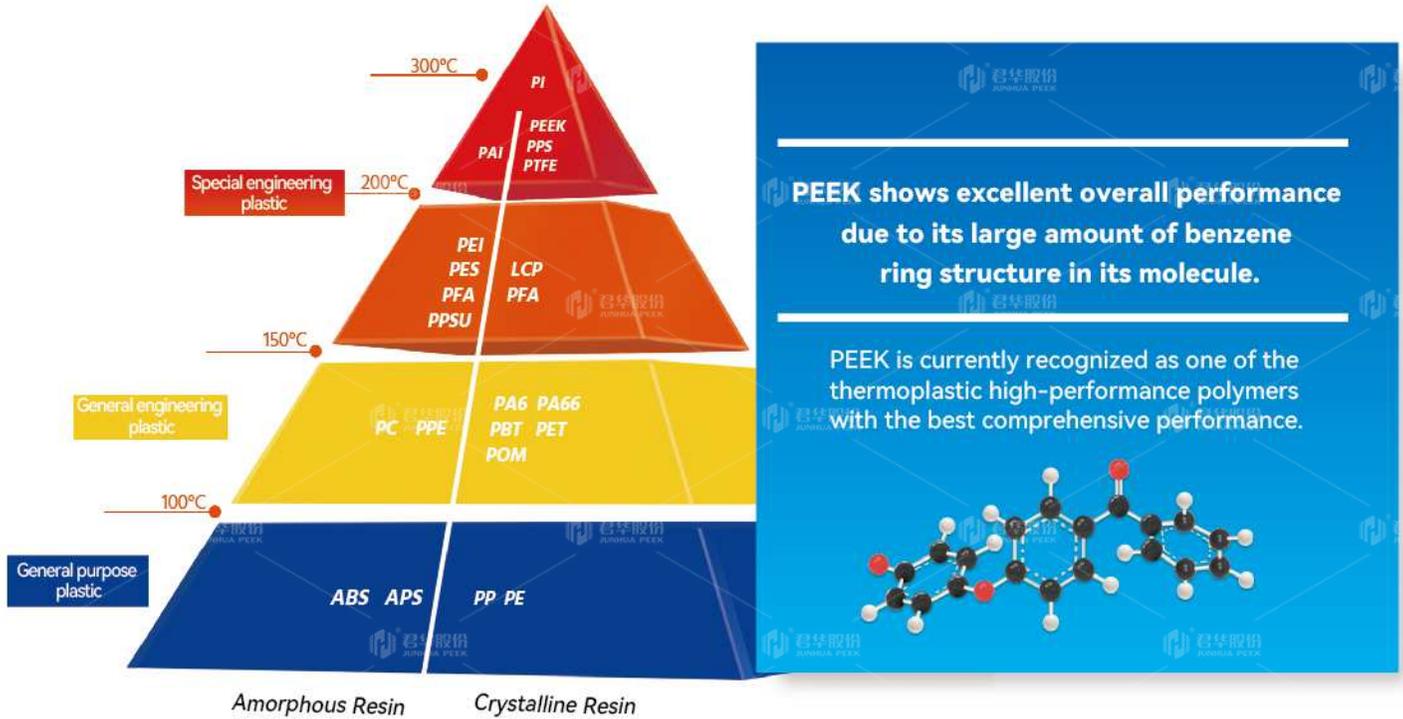


Approved:  
 ISO9001, IATF16949, AS9100D  
 FDA, RoHS  
 Jiangsu Junhua HPP Engineering Technology Research Center  
 Jiangsu Industrial Design Center  
 National joint Innovation Center  
 .....



# PEEK and Property

## ▼ Plastic Classification



## ▼ PEEK Features Advantages

- High Purity
- Light Weight
- High Temperature Resistance
- Corrosion Resistance
- Low Noise
- Impact Resistance
- Wearing Resistance
- Hydrolysis Resistance
- High Strength
- FDA Approved
- Self Lubrication
- Good Biocompatibility

# PEEK Main Grades and Properties

## Mechanical Behavior

Item	Test Standard or Instrument	Unit	PEEK5600G	PEEK5600GF30	PEEK5600CF30	PEEK5600LF30	PEEK5600FE20
			100%PEEK	PEEK+30% Glass Fiber	PEEK+30% Carbon Fiber	PEEK+30%(Carbon Fiber+Graphite+PTFE)	PEEK+20%PTFE
(23°C) Tensile Strength	ISO 527	MPa	95	175	250	145	70
(23°C) Tensile Modulus	ISO 527	GPa	3.8	11	23	12.5	/
(23°C) Elongation at Break	ISO 527	%	35	2.0	1.5	2.2	/
(23°C) Bending Strength	ISO 178	MPa	155	235	350	220	118
(23°C) Bending Modulus	ISO 178	GPa	3.5	10	21	11	/
Charpy Impact Strength	ISO 179/1U	kJ/m <sup>2</sup>	No break	55	45	32	No break
IZOD Impact Strength	ISO 180/A	kJ/m <sup>2</sup>	4	6	6.5	4	6

## Thermal Performance

Item	Test Standard or Instrument	Unit	PEEK5600G	PEEK5600GF30	PEEK5600CF30	PEEK5600LF30	PEEK5600FE20
			100%PEEK	PEEK+30% Glass Fiber	PEEK+30% Carbon Fiber	PEEK+30%(Carbon Fiber+Graphite+PTFE)	PEEK+20%PTFE
Melting Point	ISO11357	°C	343	343	343	343	343
Glass Transition Temperature	ISO 11357	°C	143	143	143	143	143
Distortion Temperature	ISO 75A-f	1.8MPa, °C	152	315	315	293	150
Coefficient of Thermal Expansion	ASTM D696	ppm K <sup>-1</sup>	45	22	15	22	70
Thermal Conductivity	ISO /CD22007-4	W/ (m·K)	0.29	0.32	0.95	0.86	/

## Electrical performance

Item	Test Standard or Instrument	Unit	PEEK5600G	PEEK5600GF30	PEEK5600CF30	PEEK5600LF30	PEEK5600FE20
			100%PEEK	PEEK+30% Glass Fiber	PEEK+30% Carbon Fiber	PEEK+30%(Carbon Fiber+Graphite+PTFE)	PEEK+20%PTFE
Dielectric Strength (2mm)	IEC 60243-1	kV/mm	20	19	/	/	19
Dielectric Constant	IEC 62631	-	3.0	3.3	/	/	2.7
Surface Resistivity	GB/T31838.3	Ω	10 <sup>15</sup>	10 <sup>14</sup>	/	/	10 <sup>15</sup>
Volume Resistivity	IEC 62631	Ω·cm	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>6</sup>	10 <sup>6</sup>	/

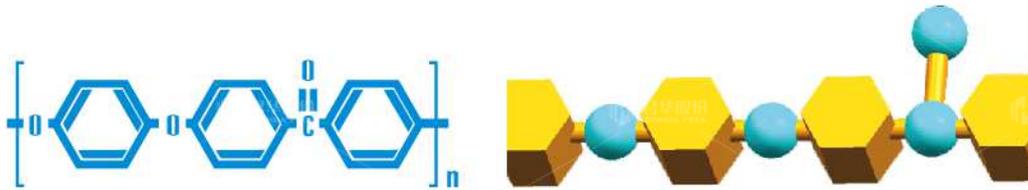
## Other performance

Item	Test Standard or Instrument	Unit	PEEK5600G	PEEK5600GF30	PEEK5600CF30	PEEK5600LF30	PEEK5600FE20
			100%PEEK	PEEK+30% Glass Fiber	PEEK+30% Carbon Fiber	PEEK+30%(Carbon Fiber+Graphite+PTFE)	PEEK+20%PTFE
Colour	-	-	Natural	Natural	Black	Black	Natural
Melt Flow Rate (400°C, 2.16kg)	ISO 1133	g/10min	6-10	2-5	1-3	2-5	/
Density	ISO 1183	g/cm <sup>3</sup>	1.30±0.02	1.50±0.02	1.40±0.02	1.44±0.02	1.41±0.02
Water Absorption (23°C, 24Hrs)	ISO 62-1	%	0.07	0.05	0.04	0.05	0.15
Mould shrinking percentage	Parallel to Flow Direction	%	1.2	0.4	0.1	0.3	1.3
	Perpendicular to Flow Direction	%	1.5	0.8	0.5	0.6	1.8
Rockwell Hardness	GB/T 3398.2	HRR	118	119	121	108	113
Flammability Rating	UL 94	/	V-0	V-0	V-0	V-0	/
Friction Coefficient	ASTM D3702	100N-120rpm	0.30-0.38	0.38-0.46	0.15-0.25	0.18-0.30	0.1-0.2

\* This parameter represents a value, not a guaranteed value. If you need to call me division technology department for more detailed technical indicators!

Brand Number	PEEK5600G	PEEK5600CF30	PEEK5600GF30	PEEK5600LF30
PEEK Resin				
PEEK Sheet Rod/Tube				
PEEK Product				

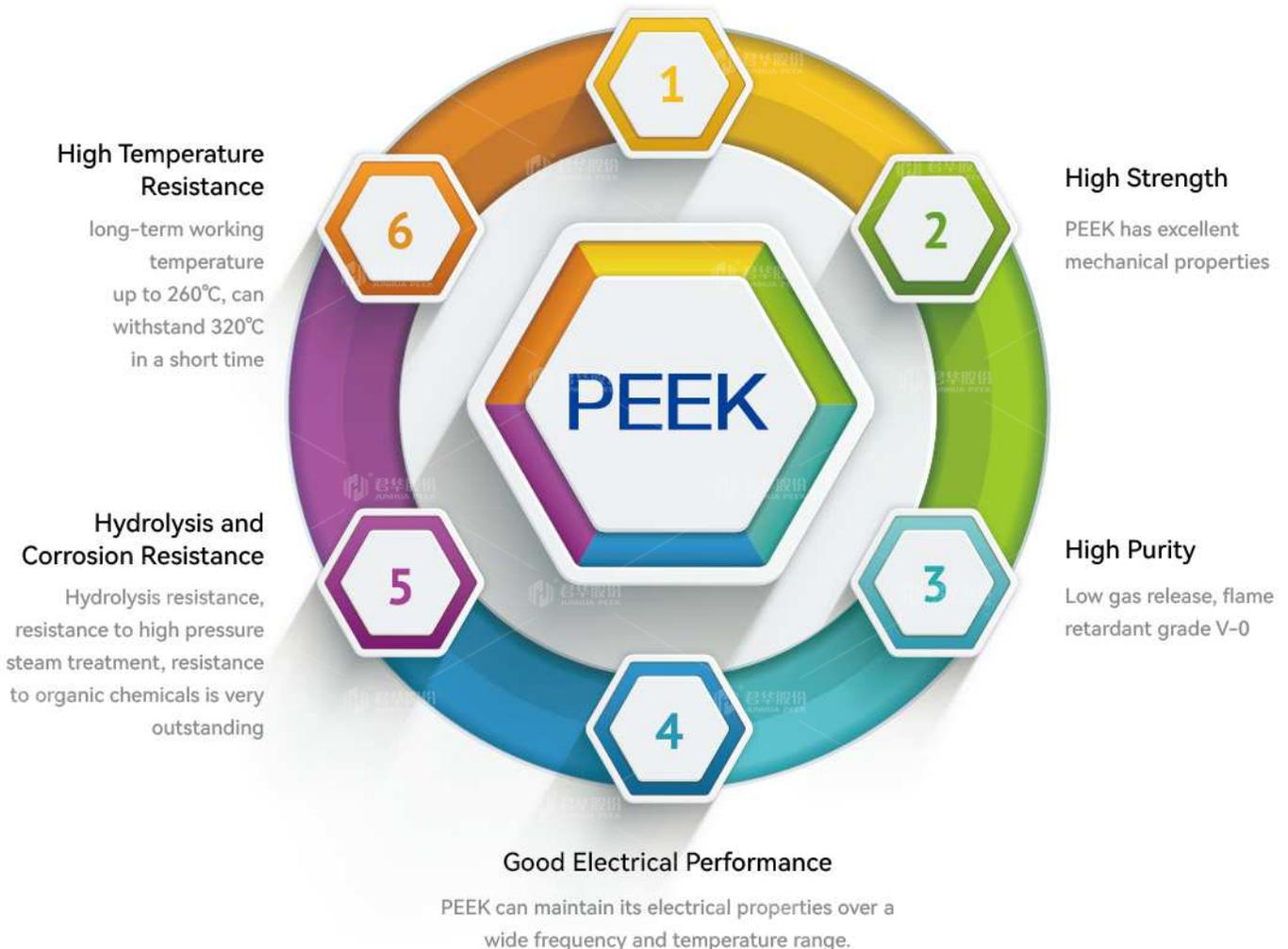
# PEEK Application Introduction in Semicon, PV, PVD



With the increase of wafer size and integrated circuit density, as well as the improvement of electronic semiconductor industry manufacturing environment requirements and pollution source sensitivity, the use of PEEK high-performance polymeric materials has become a very necessary and effective measure.

Oil-free lubrication and wear resistance are better than copper alloy.

## Self Lubrication, Wear Resistance



PEEK polymers and their composites developed by our company High-performance plastic parts have been widely used in many parts of the electronic semiconductor, PV and FPD industries. The specific forms of PEEK products are : PEEK wafer clip, PEEK vacuum suction pen holder and suction pen head, PEEK CMP grinding ring, PEEK wear-resistant roller, PEEK top pin cap, PEEK gear, PEEK vacuum traceless sucker, PEEK coating table and so on. More details please reference the product photos and introductions in this sample book.

## PEEK CMP Grinding Ring/Select Plating Ring

As an important stage of semiconductor manufacturing process, chemical mechanical polishing ( CMP ) requires strict process control, strict tolerances and high-quality surface shapes and planes. The miniaturization of products and electronic equipment further puts forward higher requirements for process performance, so the performance requirements of fixed ring components ( key components of CMP process ) are also getting higher and higher. Reasonable material selection and design of CMP fixed ring can ensure that the wafer has low polishing rate, strict plane tolerance and low vibration properties during processing.

### Advantages:

- ◆ It has high dimensional stability, can maintain modulus under high temperature conditions, and provides higher process performance and product performance.
- ◆ Easy to process
- ◆ Good mechanical properties, suitable for impact resistance, rapid equipment assembly, robot speed and product quality stability purposes.
- ◆ Good chemical corrosion resistance, can withstand the corrosion of most chemical products, is conducive to the protection of parts and prolong the service life.
- ◆ Good wear resistance
- ◆ It can reduce the cost of integrated system, and it has been proved that the investment is rewarded.



# PEEK Wafer Clips

Wafer Clip, Wafer holder tool for hand-held wafer inspection. PEEK does not contain halogen elements and does not contaminate semiconductor wafers.

## ◆ High Temperature Resistance

PEEK has a heat resistance of up to 320 °C, and can maintain its strength and dimensional stability at high temperature of lead-free welding process. At 250-280 °C, it will not deform with backflow phenomenon in 5-10 seconds.

## ◆ Wearing Resistance

PEEK has high mechanical properties and wear resistance

## ◆ Dimensional Stability

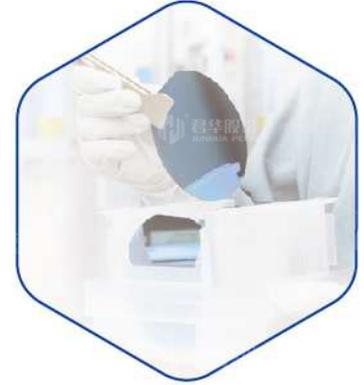
The filled material reduces the thermal expansion coefficient, increases the thermal deformation temperature, and ensures the dimensional stability of the product.

## ◆ Low Gas Release

Reduces pollution and improves the reliability of accessories in applications with purity requirements ( e.g. hard drives, wafer boxes )

## ◆ Low Hygroscopicity

It is very important to maintain dimensional stability and insulation performance.



PEEK 4-inch Wafer Clip



PEEK 5-inch Wafer Clip



PEEK 6-inch Wafer Clip



PEEK 8-inch Wafer Clip



PEEK 12-inch Wafer Clip



PEEK Non-standard Wafer Clip

# Wafer Cleaning Equipment



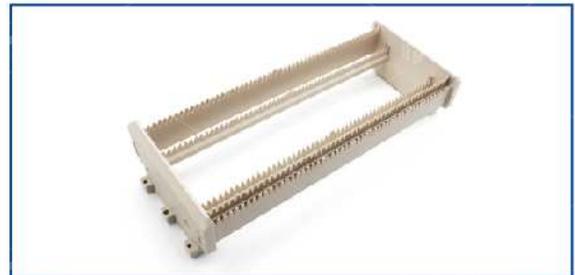
PEEK Wafer Cleanng Part



Wafer Grabbing Manipulator



PEEK Comb Teeth Parts



PEEK Drying Rack



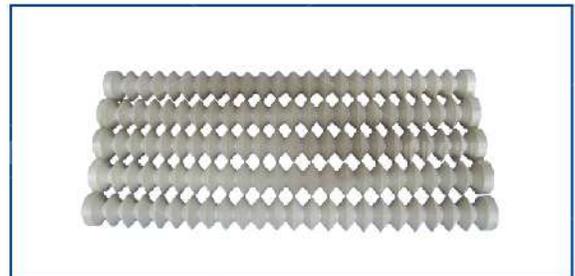
PEEK Support Tooth Parts



PEEK Hanger



CTC Loading and Unloading Table



PEEK Cleaning Strip

## PEEK, PI Vacuum Suction Pen Holder and Suction Pen Head

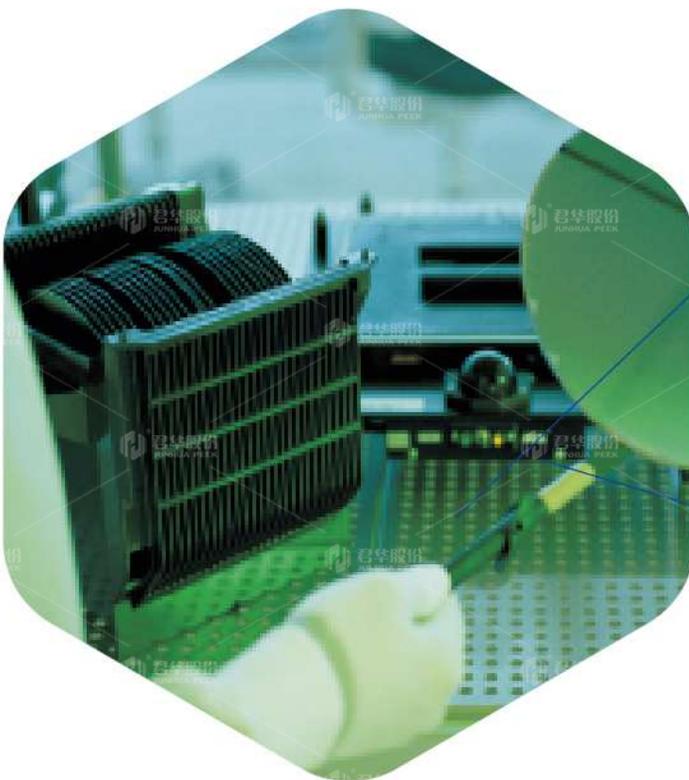


Scope of application : for 2-8 inch semiconductor wafers or LED epitaxial wafers

Component form : In-line / thread type

### Advantages:

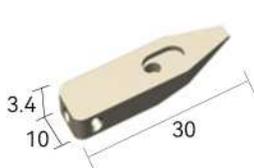
- Instant heat resistance 320°C, continuous temperature 260 °C;
- Vacuum traceless adsorption;
- High purity, does not contain halogen elements, no pollution to semiconductor materials ;
- Chemical corrosion resistance ;
- High strength, wear resistance ;
- Can be upgraded to anti-static PEEK production



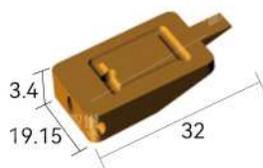
# PEEK, PI Vacuum Suction Pen Holder and Suction Pen Head

## Common Specifications

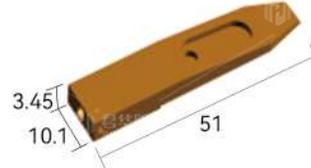
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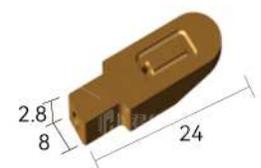
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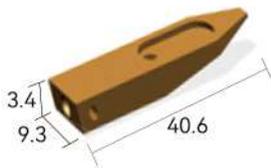
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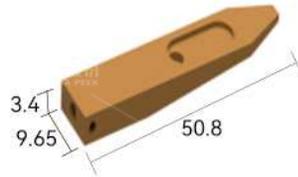
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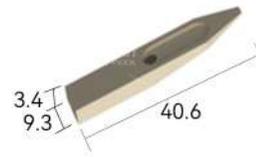
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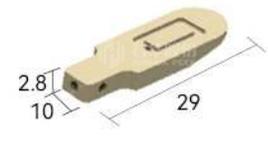
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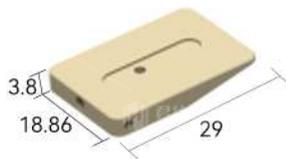
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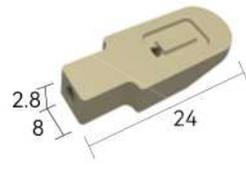
JHXT-020401



JHXT-020402



JHXT-020408



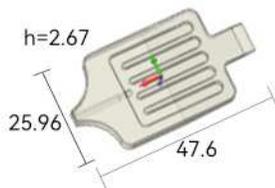
JHXT-020409

No	Product	Specification(mm)	Material	Available Size
JHXT-010401	PEEK Vacuum Suction Pen Head	3.4*10*30	PEEK5600G	1 inch
JHXT-020101	PI Vacuum Suction Pen Head	3.4*19.15*32	JHPI-10	2 inch
JHXT-020103	PI Vacuum Suction Pen Head	3.45*10.1*51	JHPI-10	2 inch
JHXT-020105	PI Vacuum Suction Pen Head	2.8*8*24	JHPI-10	2 inch
JHXT-020108	PI Vacuum Suction Pen Head	3.4*9.3*40.6	JHPI-10	2 inch
JHXT-020110	PI Vacuum Suction Pen Head	3.4*9.65*50.8	JHPI-10	2 inch
JHXT-020401	PEEK Vacuum Suction Pen Head	3.4*9.3*40.6	PEEK5600G	2 inch
JHXT-020402	PEEK Vacuum Suction Pen Head	2.8*10*29	PEEK5600G	2 inch
JHXT-020408	PEEK Vacuum Suction Pen Head	3.8*18.86*29—Stripe Groove	PEEK5600G	2 inch
JHXT-020409	PEEK Vacuum Suction Pen Head	2.8*8*24	PEEK5600G	2 inch

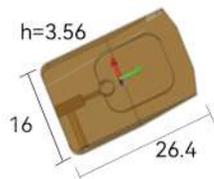
# PEEK, PI Vacuum Suction Pen Holder and Suction Pen Head

Available Size: 4 inch

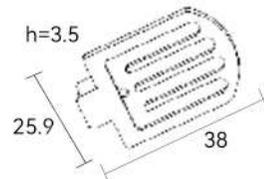
No	Product	Specification(mm)	Material	Available Size
JHXT-040101	PEEK Vacuum Suction Pen Head-4 inch(P40)	2.67*25.96*47.6	PEEK5600G	4 inch
JHXT-040102	PI Vacuum Suction Pen Head	3.56*16*26.4	JHPI-10	4 inch
JHXT-040104	PI Vacuum Suction Pen Head- 4 inch	3.5*25.9*38	JHPI-10	4 inch
JHXT-040103	PI Vacuum Suction Pen Head	3.5*25.9*40	JHPI-10	4 inch
JHXT-040105	PI Vacuum Suction Pen Head	3.6*19.86*31.8	JHPI-10	4 inch
JHXT-040107	PI Vacuum Suction Pen Head T3	3*19.86*31.8	JHPI-10	4 inch
JHXT-040109	Customized PI Vacuum Suction Pen Head	3.4*15*50.8	JHPI-10	4 inch
JHXT-040110	PI Vacuum Suction Pen Head	3.4*19*48	JHPI-10	4 inch
JHXT-040902	PI Vacuum Suction Pen Head	3.6*19.86*31.8	JHPI-HT	4 inch
JHXT-040403	PEEK Vacuum Suction Pen Head	3.6*19.86*31.8	PEEK5600G	4 inch
JHXT-040404	PEEK Vacuum Suction Pen Head	3*19.86*31.8	PEEK5600G	4 inch



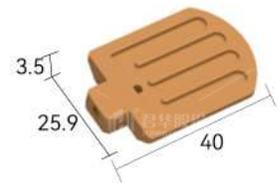
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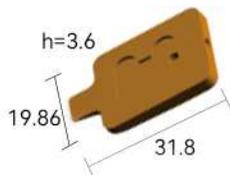
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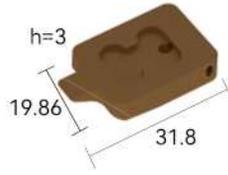
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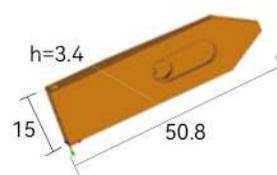
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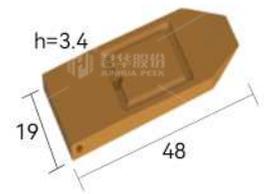
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JHXT-040107



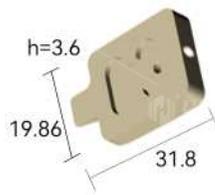
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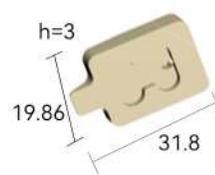
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JHXT-040902



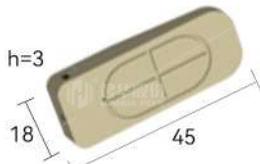
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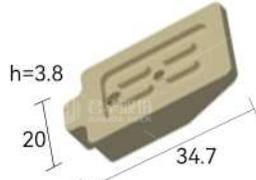
JHXT-040404

# PEEK, PI Vacuum Suction Pen Holder and Suction Pen Head

Available Size: 5-12 inch



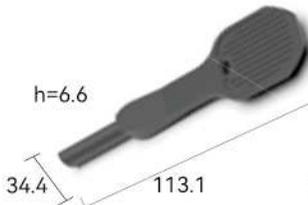
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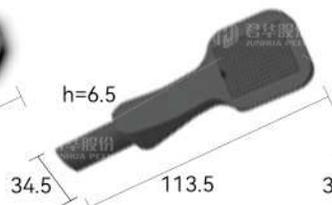
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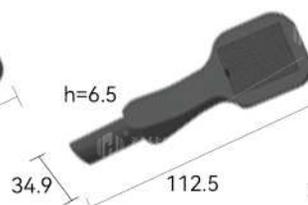
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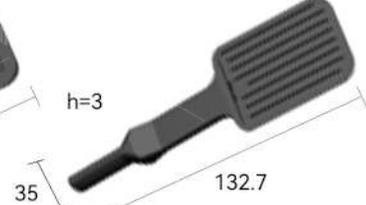
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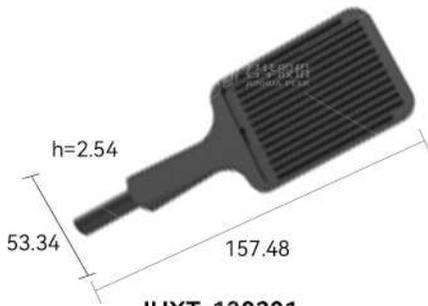
JHXT-060304



JHXT-060305



JHXT-080302



JHXT-120301



JHXT-120301U20

No	Product	Specification(mm)	Material	Available Size
JHXT-050401	F50 Vacuum Suction Pen Head-4 inch(P40)	3*18*45	PEEK5600G	5 inch
JHXT-060403	PEEK Vacuum Suction Pen Head	3.8*20*34.7	PEEK5600G	6 inch
JHXT-060502	PEEK ESD Vacuum Suction Pen Head	3*27*42	PEEK5600ESD	6 inch
JHXT-060301	PEEK Vacuum Suction Pen Head	6.6*34.4*113.1	PEEK5600CF30	4 inch
JHXT-060304	PEEK Vacuum Suction Pen Head	6.5*34.5*113.5	PEEK5600CF30	4 inch
JHXT-060305	PEEK Vacuum Suction Pen Head	6.5*34.9*112.5	PEEK5600CF30	4 inch
JHXT-080302	PEEK Vacuum Suction Pen Head	3*35*132.7	PEEK5600CF30	8 inch
JHXT-120301	PEEK Vacuum Suction Pen Head	2.54*53.34*157.48	PEEK5600CF30	12 inch
JHXT-120301U20	Folding Vacuum Suction Pen Head -20°-12 inch	2.54*53.34*157.48Folding-20°	PEEK5600CF30	12 inch

# PEEK IC SOCKET

## Advantages:

- ◆ Micro-hole machining accuracy, no burrs.
- ◆ One-time injection molding, low cost.



## Other Products



PEEK Wafer Tray



PEEK Comb Parts



PEEK Convenient Vacuum Pen



PEEK Comb Parts



PEEK Comb Parts



PEEK Sucking Disc



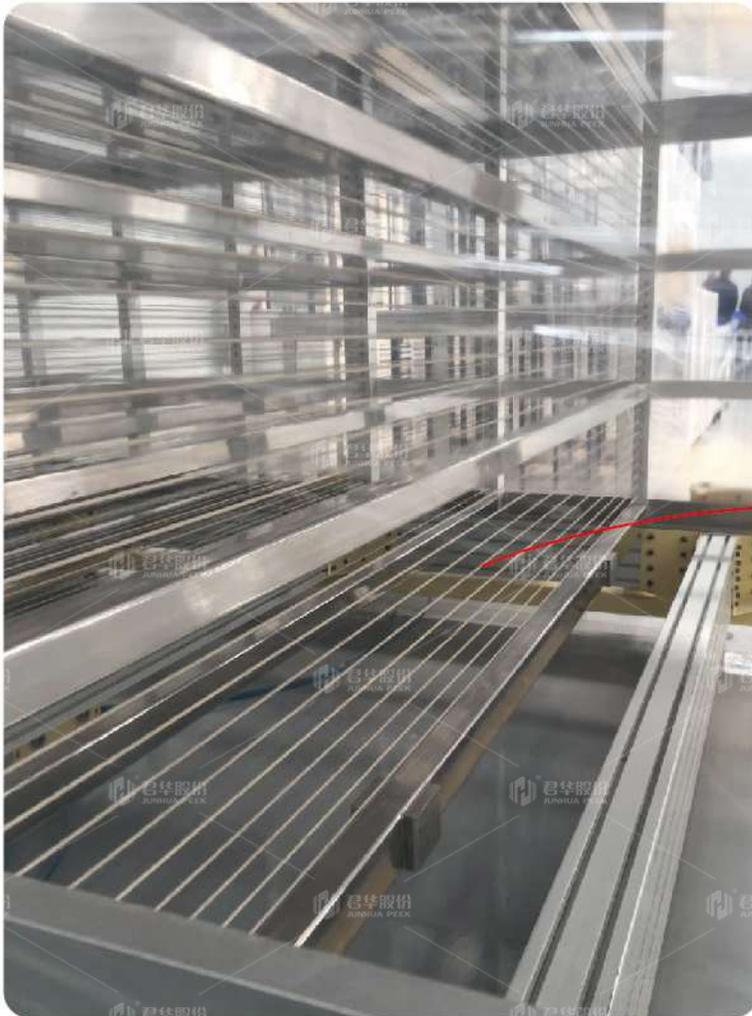
PEEK Part



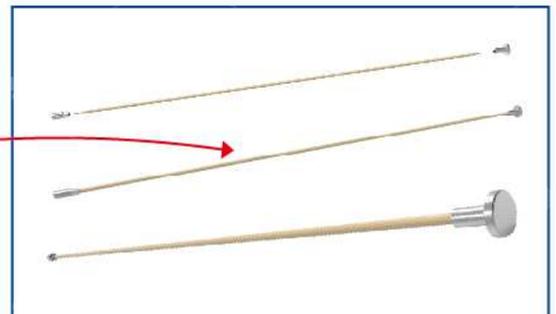
PI Chip Bonding PART

## PEEK Supporting Line -----LCD Cassette

LCD Cassette is mainly used for the equipment of carrying, transmitting and protecting the glass substrate in the production of TFT LCD. The PEEK support wire is in the LCD Cassette, which has wear resistance and high surface hardness, which can greatly reduce the amount of particles generated ; ultra-high purity and low gas release can avoid pollution, thereby improving the yield of process production ; high temperature resistance, no need to cool down between the various stages of process production, thereby improving process efficiency ; chemical resistance, which can withstand most of the chemical substances, is used for key parts of process manufacturing equipment, which can prolong the service life of the equipment and reduce the maintenance requirements of the equipment.



PEEK Supporting Line



PEEK Supporting Line



Continuous Extrusion Cable

# PEEK Antifriction Bearing



## Advantages:

- ◆ Excellent wear resistance, high surface hardness, can greatly reduce the amount of dust ;
- ◆ Ultra-high purity, low precipitate and low gas release can avoid pollution;
- ◆ High heat resistance, long-term use temperature is 260 °C ;
- ◆ Chemical corrosion resistance, can withstand most of the chemical corrosive substances, reduce equipment maintenance requirements ;
- ◆ Low noise



## PEEK SRCREW/ NUT

Product Name: PEEK Screws, PEEK bolts, PEEK screws

For replacement : PP / PA / POM and other common materials



### Advantages:

- ◆ It can be directly molded by injection molding process, and the processing cost is low;
- ◆ Corrosion resistance, maintaining excellent tolerance to various chemicals in a wide range ;
- ◆ High temperature resistance, long-term use temperature of 260 °C, short-term use temperature of 320 °C ;
- ◆ Light weight
- ◆ Excellent electrical performance
- ◆ Radiation resistance



PEEK SCREW(Multi-Standard)



PEEK Flat Head Phillips Screws



PEEK Hex Head Cap Screw



PEEK Socket Headcap Screws



PEEK SCREW(Multi-Standard)



PEEK NUT

## Other PEEK Products in PV Industry



PEEK Pan Head Slotted Screw



PEEK Flat Head Phillips Screw



PEEK Hand Twisting Screw



PEEK Gear



PEEK Round Phillips Screw



PEEK Hex Flat Head Slotted Screw



PI Bearing



PEEK Conductive Bearing

# PEEK Vacuum Traceless Sucker

Substitute material: Rubber

Scope of application: With mobile phone screen, LCD screen and other traceless absorb

## Advantages:

- ◆ The instantaneous temperature resistance is 320 °C, and the continuous temperature resistance is 260 °C ;
- ◆ Vacuum traceless adsorption ;
- ◆ High purity, no halogen elements, no pollution to semiconductor materials ;
- ◆ Chemical corrosion resistance ;
- ◆ High strength, wear resistance ;
- ◆ Can be upgraded to anti-static PEEK production.



PEEK Vacuum Traceless Sucker



PEEK Vacuum Traceless Sucker



PEEK Sucker



PEEK ESD Sucker



PI Sucker



PEEK Sucker

## Other PEEK Products in PVD Industry



PEEK Top Pin Nut



PEEK Top Pin Nut



PAI Ball



PEEK Ball



PI Top Pin



PI Mounting Panel



PEEK Top Pin



PEEK Vacuum Coating Equipment Part

# Products



PEEK Slider



PEEK CUP



M10 PEEK Nut



PEEK Ball Dia 9mm



PEEK Multi-slot Parts



PEEK Multi-slot Parts



PEEK Clamp



PEEK Imaging Holder

# Products



PEEK Coating Table



PEEK Coil Skeleton



PEEK Ball Transfer Base and Cover



PEEK Hanging Frame



PEEK Insulating Plate



PEEK Solar Wafer Gear



PEEK Fixed Seat



PEEK Wear-resistant Bushing

# PEEK Profile



PEEK Granule



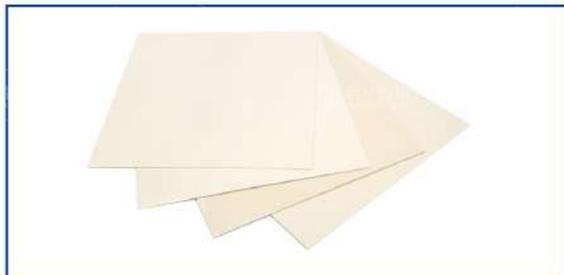
PEEK Continuous Extrusion ROD



PEEK Continuous Extrusion Capillary



PEEK Continuous Extrusion Tube



PEEK Continuous Extrusion Film



PEEK Continuous Extrusion Sheet



PEEK Profile Warehouse



Show Room



Width      Thickness  
**600~1250** — **5~100** mm    About the specification list, please call for advice!

## PEEK Continuous Extrusion SHEET

Compared with the traditional molding process, the uniformity and production efficiency of the plate are obviously improved. According to customer requirements, U-shaped, Z-shaped and other special-shape profiles can be developed.

The introduction of European imported 1250 mm wide PEEK sheet extrusion production line, while improving the quality of the sheet, effectively ensure the customer's requirements for product delivery.

## PEEK Continuous Extrusion ROD

PEEK rod has excellent machining performance, which can replace the large size, high thickness and small batch products that cannot be molded by ordinary injection molding process.

PEEK rods with a diameter of 1-300 mm can be extruded, and the length is generally 1000 or 3000 mm. They can also be cut non-standard according to customer requirements. There are nearly 100 kinds of extrusion dies for profiles, which are stocked all year round.

Diameter      Length  
**1~300** — **1000~3000** mm    About the specification list, please call for advice!



## PEEK Continuous Extrusion Tube

It can provide new solutions for light piping systems to meet the stringent safety, quality and performance requirements of the aviation industry.

It is lighter in weight than similar metal pipes used for low-pressure liquid delivery. It can be bent, shaped, adapted to expand and clamped.

PEEK pipe instead of metal pipe, can effectively save fuel costs



Outer Diameter      Inner Diameter  
**1~597** — **1~450** mm

About the specification list, please call for advice!

# PI

## Application:

It has been widely used in automobiles, semiconductors, office equipment, electronic and electrical equipment, scientific instruments, hot runners, petrochemical equipment, general machinery, textile machinery, laser printing, medical equipment and other fields.



High Temperature Resistance



Wearing Resistance



Deformation Resistance



Resistant to Plasma, Radiation



Electronic Insulation



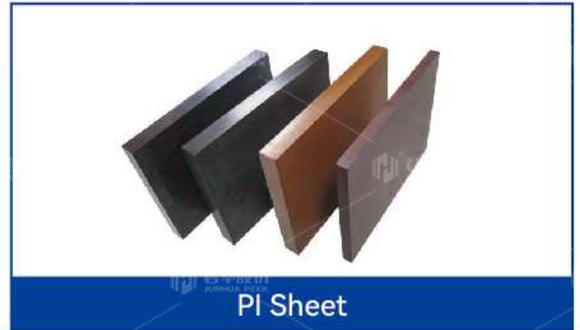
Corrosion Resistance



Low Precipitation



Excellent Machinability



Item	Standard	Unit	JHPI-10	JHPI-10-22 (with 15% graphite)	JHPI-10-22 (with 40% graphite)	JHPI-HT	JHPI-YS	JSJHTPI-01	JSJHTPI-02
Density	ISO 1183	g/cm <sup>3</sup>	1.40	1.43	1.7	1.4	1.36	1.32	1.36
Tensile Strength	ISO 527	MPa	96	90	60	92	121	90	97
Elongation at Break	ISO 527	%	10	5	2.5	8	13	8	8
Bending Strength	ISO 178	MPa	148	126	90	140	171	130	138
Charpy Impact Strength	ISO 179	MPa	90	135	13	88	(No break)	100	(No break)
Heat Distortion Temperature	ISO 75-1/-2	°C	>300	>300	> 300	> 320	255	230	250
Continuous Using Temperature	UL746B	°C	350	350	350	380	250	250	250

★ The standard characteristics of the above materials can not be used as acceptance criteria ! If you need other performance standards, you can contact us for further consultation !

JHPI-10		JHPI-10-21	
			
<p>It has high temperature resistance, long-term use temperature of 350°C, and instantaneous temperature of 400 °C. It has good processing characteristics and can be processed into bars or other special-shaped parts.</p>		<p>Long-term use temperature of 350°C, and instantaneous temperature over 400°C. Adding 15% graphite, the friction coefficient is low and the wear resistance is better.</p>	
JHPI-YS		JSJHTPI-01	
			
<p>A semi-thermoplastic polyimide material with a long-term use temperature of up to 250 ° C has high dimensional stability and transparency.</p>		<p>Long-term use temperature 250°C, excellent processing performance, can be produced by injection molding or extrusion process of various parts or profiles</p>	

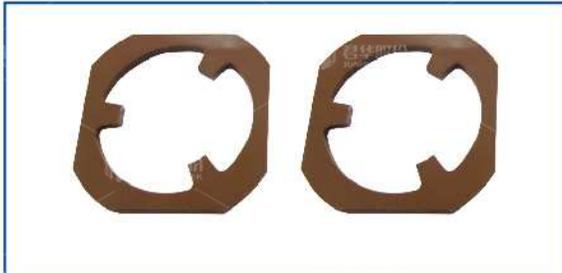
## PI Typical Products



PI Finished Parts



PI Finished Parts



PI Finished Parts



PI Finished Parts



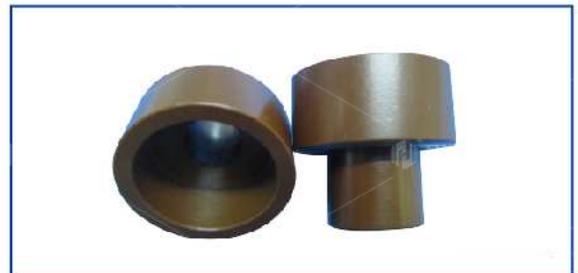
PI Finished Parts(High Temperature)



PI Clamp Spacer Block



PI Insulation Plate of Substrate Base



PI Insulating Bush

# PI Typical Products



# Testing Equipment

## Product Processing and Quality Control



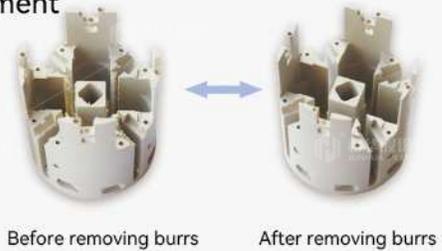
### Cold Jet carbon ice deburring equipment

Improve the quality of machined parts

- ▶ Non-destructive cleaning
- ▶ Improve product quality and reduce scrap rate
- ▶ No need to manually remove burrs and flashes
- ▶ No secondary waste
- ▶ Eliminate burrs and flashes faster and more evenly



Remove burrs at micropores  
Remove burrs at the thread



Before removing burrs      After removing burrs

Carbon ice cleaning technology is an effective deburring solution, which can remove burrs and flashes on machined parts and molded parts. Including fine holes, cross holes, etc., no pollution, can effectively prevent the pipeline flow reduction or blockage caused by burrs, and no residue.

## Raw Material Performance Testing



### Universal Testing Machine

It is used to detect conventional mechanical properties such as tensile, bending and modulus of products.



### Impact Tester

For testing impact strength



### Hardness Tester

For testing the Rockwell hardness of materials



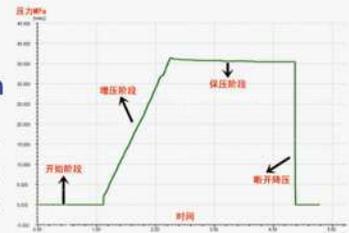
### Density Detector

Used to detect the actual density of the product



### Liquid Chromatograph

It can detect the sealing and pressure retention of pipe connections such as joints and two-way three-way connections.



# Testing Equipment

## Profile, Finished Product Inspection and Size Appearance inspection Equipment



### PEEK Products Clean Workshop

In order to improve the quality of PEEK products and better meet the special application needs of customers in various industries. In strict accordance with GMP standards, our company has established D grade clean workshops and equipped with clean cleaning areas. Maintaining the cleanliness of clean workshops and controlling the continuous stability of pollution are the core standards for the production of implantable PEEK.



### X-ray Foreign Body Detection Equipment

Check whether the product has foreign matter in the production process, such as metal chips, etc.



### Image Measuring Instrument

Some products with high requirements of 2-D dimensional accuracy and geometric tolerance accuracy are tested, and the detection accuracy can reach 0.001 mm.



### Surface Roughness Detector

The surface roughness of the processed product can be measured by controlling the product with high appearance requirements.



### Double Groove Ultrasonic Cleaning Machine

Equipped with double groove ultrasonic cleaning machine, the cleaning effect of small gap, slit and deep hole parts is better, and the dust, impurities and oil stains on the surface of the product are effectively removed. After cleaning in a clean vacuum packaging, to prevent secondary pollution. Ensure the cleanliness of the product surface, so that the product analysis effect is more accurate.



### Ultrasonic Detector

Detect whether there are impurities, loose, pores and other defects inside the product.



### Three Coordinates

The detection accuracy of products with high requirements for three-dimensional dimensional accuracy and shape and position tolerance accuracy can reach 0.0005 mm, which can provide industry-recognized three-coordinate dimensional detection reports.

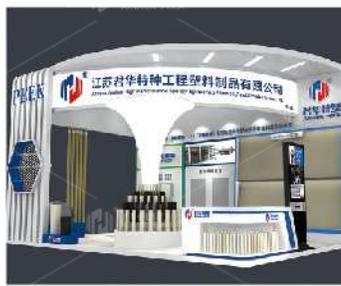
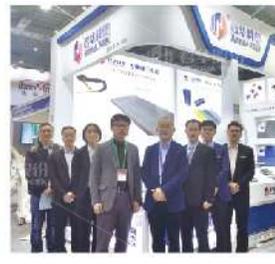
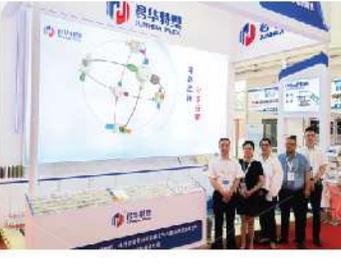
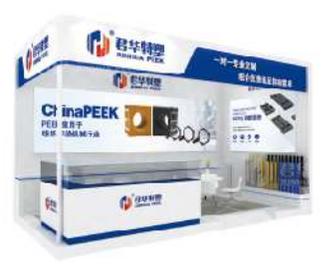
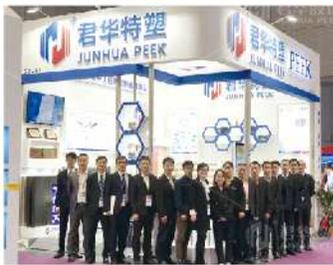
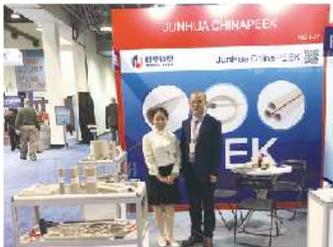


### Universal Friction and Wear Testing Machine

The friction coefficient and wear amount of the material at a certain load and speed were tested.

# Global Vision

Leading the industrialization process of China's high-performance special polymer materials with overall innovation, and becoming the best partner for world customers.



# PEEK Sales Network

China	France	United Kingdom	Egypt
US	Netherlands	Malaysia	Belgium
India	Pakistan	Spain	Qatar
Russia	Iran	Colombia	Saudi Arabia
Brazil	Argentina	Hungary	Uzbekistan
Mexico	United Arab Emirates	Turkey	Ireland
Singapore	Switzerland	Croatia	Bangladesh
Australia	Korea	Czech Republic	Ukraine
Germany	South Africa	Italy	Peru
Romania	Bulgaria	Finland	Denmark
Thailand	Chile	Jordan	Sweden
Canada	Vietnam	Sri Lanka	
Indonesia	Poland	Iraq	

## Wholly-owned Subsidiary in Germany





## **Jiangsu Junhua HPP Co., Ltd.**

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