



www.chinaPEEK.com



# China PEEK



超级聚合物-- PEEK（聚醚醚酮）、PI（聚酰亚胺）等  
高性能特种工程塑料型材专业挤出生产商

PEEK等高性能塑料型材, 因其卓越的综合性能, 而广泛应用于高端领域。

PEEK are widely applied in high-end fields because of their ourstanding comprehensive properties.



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## 企业简介

Company Profile



## 经营内容

Core Business

江苏君华特种高分子材料股份有限公司专注于PEEK（聚醚醚酮）等高性能特种工程塑料树脂、型材的应用研发及生产，并形成了一条具备PEEK原料树脂聚合、改性造粒、成品零件的注塑和机加工、板棒管片等型材连续挤出成型的完整产业链。

Junhua chinaPEEK specializes in the application, development and production of high performance special engineering plastic(PEEK) resin and profile. We have formed a complete industrial chain with PEEK raw material resin polymerization, modified granulation, injection molding and machining of finished parts, and continuous extrusion of materials such as rod, tube and sheets.

## 经营目标

Objective

通过与科研院所、材料供应商及同行客户的广泛合作，推动特种工程塑料制品、型材在航空航天、分析测试仪器、汽车、电子半导体、包装机械、医疗器械等领域的应用，为广大制造商提供优质的材料，促进技术进步，实现产品更新换代。

Through working with research institute, material supplier and clients, we want to promote super engineering plastic more widely used in industries like textile dyeing printing machinery, automotive, semiconductor, Solar, FPD, analysis & measuring instrument, food processing, beverage filling and packaging, medical, etc.

## 经营理念

Principle

诚信

Honesty

务实

Pragmatic

合作

Cooperation

创新

Innovation

共赢

Win-win



高新技术企业证书  
High-tech Enterprise Certificate



工程技术研究中心铜牌  
Engineering Technology  
Research Center



国家级专精特新“小巨人”企业  
National Specialized and  
New “Little Giant” Enterprise

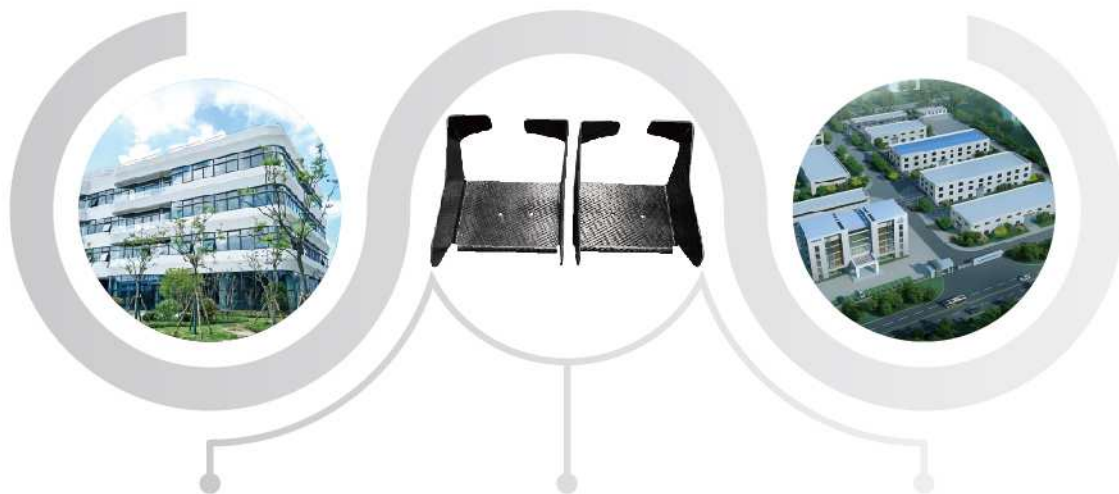


## 江苏君华特种高分子材料股份有限公司

JiangSu JunHua HPP Co., Ltd.

君华股份成立于2007年, 依托此前十八年PEEK研发生产经验, 成为一家同时具备PEEK树脂原料聚合、PEEK板棒管片等型材连续挤出成型及成品零件的研发、生产、销售为一体的全产业链公司。在国内多个城市设有生产和销售子公司, 产品销往欧美东南亚等国外及国内市场。

Junhua chinaPEEK was established in 2007. Based on the experience of PEEK R&D and production in the past 18 years, it has become a whole industrial chain company focused on PEEK resin raw material polymerization, PEEK rod, tube sheet extrusion and finished parts' R&D, production and sales. It has production and sales subsidiaries in many cities in China, and its products are sold to domestic and also foreign markets such as Europe, America and Southeast Asia.



## 常州君华医疗科技有限公司

Changzhou Junhua Medical Technology Co., Ltd.

常州君华医疗科技为君华股份全资子公司, 成立专门的团队配合医疗行业的客户负责医用PEEK、PPSU、碳纤维增强CF/PEEK热塑性复合材料等医用高分子材料及制品的研发、生产及销售。

公司建立了严格的ISO13485质量管理体系, 材料通过FDA、REACH、ROHS及ISO10993生物相容性等第三方权威机构认证。配有专用的医用型材挤出洁净车间和完善的加工检测等硬件设施。

我们十分愿意用我们的经验协助客户从产品的设计、选材、工艺、打样到量产的整个流程, 我们始终以为客户创造最大价值为己任。

Changzhou Junhua Medical Co., Ltd. is a wholly-owned subsidiary of Jiangsu Junhua. It has set up a special team to cooperate with customers in the medical industry to develop, produce and sale medical polymer and products such as medical PEEK, PPSU, carbon fiber reinforced PEEK composite. The company has established ISO13485 quality management system, and the materials have been certified by third-party authorities such as FDA, REACH, ROHS and ISO10993. It is equipped with clean workshops and complete processing and inspection facilities.

## 常州君航高性能复合材料有限公司

Changzhou Junhang High Performance Composite Material Co., Ltd.

常州君航高性能复合材料有限公司专注于连续碳纤维CF、玻璃纤维GF等增强PEEK、PEKK、PPS、PEI等高性能热塑性复合材料预浸料、板材的研发、生产和销售。产品主要包括热塑性复合材料预浸料、板材及制品, 广泛应用于航空航天、军工、医疗器械及核电等高端领域。

Changzhou Junhang High Performance Composite Material Co., Ltd. focusing on the development, production and sales of thermoplastic composite prepreps and sheets like continuous carbon fiber CF, glass fiber GF and other reinforced PEEK, PEKK, PPS, PEI, etc. The products mainly include thermoplastic composite prepreps, sheets and finished parts, which are widely used in high-end fields such as aerospace, military, medical equipment and nuclear power.

## 山东君昊高性能聚合物有限公司

Shandong Junhao High Performance Polymer Co., Ltd.

山东君昊高性能聚合物有限公司采用吉林大学的专利技术, 专注于PEEK(聚醚醚酮)、PEK(聚醚酮)等高性能聚合物的研发、生产及销售。公司在山东省级专业化化工园区--济宁新材料产业园内建设年产能达2500吨PEEK树脂改性粒子600吨的PI树脂以及年产100吨的医用级PEEK两套生产能装置, 为PEEK型材挤出、复合材料及医用PEEK的研发、生产提供强有力的原料支撑。

Shandong Junhao High Performance Polymer Co., Ltd. adopts the patented technology of Jilin University, focusing on the development, production and sales of PEEK (polyether ether ketone), PEK (polyether ketone) and other high performance polymers. In Jining New Materials Industrial Park, a professional chemical industry park in Shandong Province, the company built PI resin with an annual capacity of 2500 tons of PEEK resin modified particles 600 tons and medical PEEK with an annual capacity of 100 tons, providing strong raw material support for PEEK profile extrusion, composite materials and medical PEEK research and development and production.


# 发展历程

## Development History

2014年, PEEK型材及制品获得江苏省高新技术产品认证。  
2014年, 常州君华增资到1000万,并改名为江苏君华特塑。

In 2014, PEEK material and parts achieved the Jiangsu High-tech Product Certificate.

In 2014, Changzhou Junhua added the investment to 10million and was renamed Jiangsu Junhua High Performance Speciality Engineering Plastic(PEEK) Co., Ltd.

2016年3月, 注册“JUNHUA”、“”商标。  
2016年8月, 启动PEEK线缆挤出项目。

In March 2016, we registered “JUNHUA”, “” trademark.  
In August 2016, we started extrusion subject for PEEK cable.

2012年, 国内第一家模压加工出2米长的PEEK大板。  
2012年, 制定国内第一份PEEK制品企业标准并通过备案。

In 2012, we were the first in China to mould press 2 meters long PEEK sheet.

In 2012, we enacted the first PEEK manufacturer standard in China and pass the record.

总经理参与国内热塑性聚酰亚胺(PI)聚合生产。

In 2003, general manager took part in the polymerization production of thermoplastic PI at home.

2003

2012

2014

2016

2007

注册成立常州君华特塑公司, 并进驻江苏长三角模具城。

In 2007, Changzhou Junhua High Performance Speciality Engineering Plastic(PEEK) Co., Ltd. Founded and located at Jiangsu Yangtze River Delta Mould City.

2013

2013年, 国内第一家开发出PEEK板棒管等型材连续挤出工艺及设备。

In 2013, we were the first to develop the continuous extrusion process and equipment of PEEK sheet, rod and tube in China.

2015

2015年, 通过国家高新技术企业认定。  
2015年, 公司整体导入VIS企业形象。  
2015年, 公司入驻武进国家高新区创新中心标准厂房。  
2015年3月, 启动PEEK聚合中试装置, 年底投产。

In 2015, we passed the National High-tech Enterprise Authentication.  
In 2015, we imported VIS enterprise image entirely.  
In 2015, we moved to Creativity Industry Zone in Wujin High-tech district.  
In March 2015, we started PEEK polymerization equipment and would be put into production at the end of the year.

2017

2017年12月, 2吨PEEK板棒型材出口德国。

In December 2017, 2t PEEK sheet and rod exported to Germany.

- 1) 成立全资子公司常州君华医疗科技有限公司。
- 2) 成立常州君航高性能复合材料有限公司。
- 3) 新增2000平方米办公及生产面积，建成280平方米洁净车间。
- 4) 进口1250mm宽PEEK板材挤出生产线。
- 5) 公司入选苏南国家自主创新示范区瞪羚企业名单。
- 6) 公司两项新产品植入级PEEK材料、连续碳纤维增加PEEK复合材料被认定为“常州制造创新产品”。

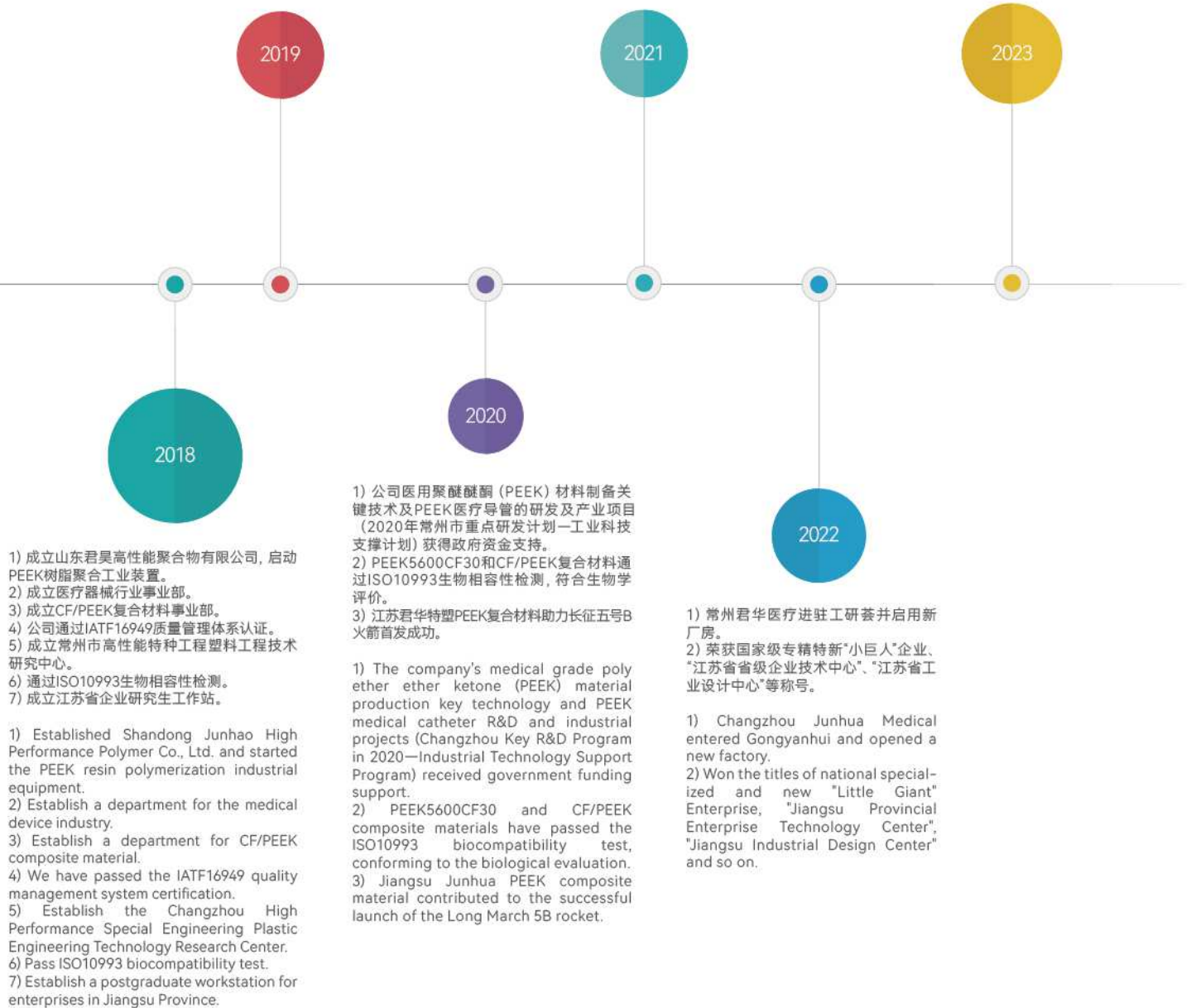
- 1) Established a wholly-owned subsidiary, Changzhou Junhua Medical Technology Co., Ltd.
- 2) Established Changzhou Junhang High Performance Composite Materials Co., Ltd.
- 3) Increase the office and production area of 2000 square meters, and build a clean workshop of 280 square meters.
- 4) Imported 1250mm wide PEEK sheet extrusion production line.
- 5) The company was selected into the list of Gazelle enterprises in the Southern Jiangsu National Independent Innovation Demonstration Zone.
- 6) Two newly developed products, implanted PEEK material and continuous carbon fiber reinforced PEEK composite material, were recognized as "Changzhou Manufacturing Innovative Products".

- 1) AKSOPEEK® 新一代医用植入级材料品牌商标正式发布。
- 2) 参与制定聚醚醚酮 (PEEK) 树脂国家标准。
- 3) 首轮融资六千万，启动IPO规范上市工作。

- 1) AKSOPEEK® new-generation medical implant-grade material brand trademark was officially released.
- 2) Participated in the formulation of national standards for polyetheretherketone (PEEK) resins.
- 3) The first round of financing was 60 million yuan, and the IPO was launched.

- 1) 连续碳纤维CF/PEEK热塑性复合材料和医用植入级AKSOPEEK® 通过省工信厅新产品鉴定。
- 2) 完成股权激励和公司股改。
- 3) 启动IPO内控体系规范建设。
- 4) 君华股份智能新厂区启动设计建设。

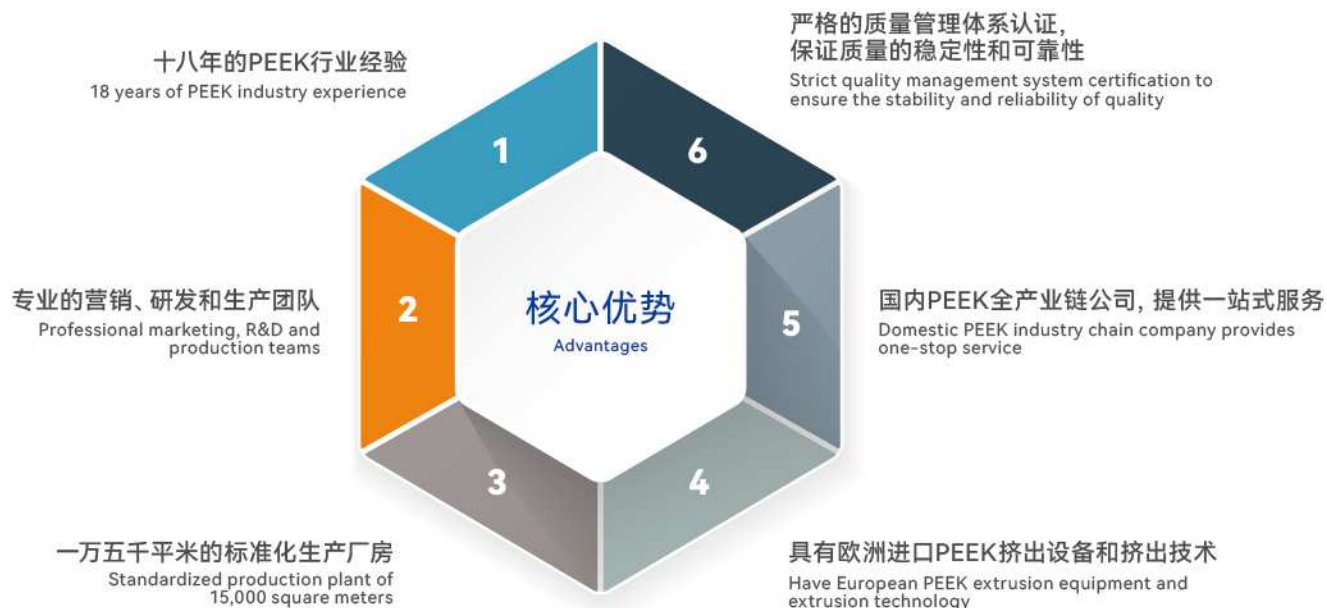
- 1) Continuous CF/PEEK thermoplastic composites and medical-grade AKSOPEEK have passed the new product verification by Industry And Information Technology Department of Jiangsu.
- 2) Completed equity incentives and corporate shareholding reform.
- 3) Initiate the standardization of internal control system for IPO.
- 4) Initiate the design and construction of a new smart factory.



## 核心优势

Advantages

用最核心的技术优势, 为您带来最大价值  
The core technical advantage, the greatest value



## 完善的硬件设施 Plastic Classification



办公室工作场景  
Office



产品展示室  
Product display room



型材仓库  
Warehouse

## ISO 10993 生物相容性测试 Biocompatibility Test

实验标准Experimental standards	实验名称Experiment titles	实验结果Experiment results
ISO 10993-4:2017	体外溶血性能试验In vitro hemolytic properties test	通过 PASS
ISO 10993-10:2010	皮内反应试验Intracutaneous reactivity test	通过 PASS
ISO 10993-10:2010	皮肤致敏试验Skin sensitization test	通过 PASS
ISO 10993-5:2009	细胞毒性试验 In vitro cytotoxicity test	通过 PASS
ISO 10993-11:2017	急性毒性试验Acute systemic toxicity test	通过 PASS
ISO 10993-11:2017	热原试验Pyrogen test	通过 PASS



## 投资千万引进欧洲PEEK型材连续挤出生产线

Investing the Huge Amounts to Import the PEEK Extrusion Production Line From Europe



PEEK板材挤出生产线  
PEEK sheet extrusion production line



PEEK方板挤出生产线  
PEEK square sheet extrusion production line



PEEK厚壁管挤出生产线  
PEEK thick-wall tube extrusion production line



PEEK棒材挤出生产线  
PEEK rod extrusion production line



PEEK片材挤出生产线  
PEEK plate extrusion production line



PEEK线缆挤出生产线  
PEEK Cable production line



PEEK细管挤出生产线  
PEEK tube extrusion production line



PEEK 3D打印线材挤出线  
PEEK 3D printed filament extrusion production line

## 持续的技术创新 积累了独有的专利技术

Continuous Technology Innovation, Amounts of Patent

序号 Number	名称 Name	专利号/申请号 Patent number	申报 Apply time	授权/公布 Issuing time	类别 Type
1	一种聚醚醚酮细管挤出生产工艺及装置 PEEK capillary tubes continuous extrusion machine and technology	ZL201310425335.3	2013.9	2017.3	发明Invention
2	一种PEEK转子及其制备方法 PEEK rotor and its manufacturing technology	ZL201310423283.6	2013.9	2016.5	发明Invention
3	一种用于纺织机综框上的PEEK耐磨轴套 Wearing bush used in the harness frame of weaving machine	ZL201310423033.2	2013.9	2017.1	发明Invention
4	一种具有电磁预热功能的PEEK线缆挤出设备 PEEK cable extruder with electromagnetic preheating function	ZL201721255076.4	2017/9/28	2018/4/10	实用新型 Utility model
5	一种连续CF/PEEK热塑性复合材料及其制备方法 A continuous CF/PEEK thermoplastic composite material and its production method	201910443696.8	2019/5/27	已受理Has accepted	发明Invention
6	一种聚醚醚酮毛细管在线结晶一步生产方法 One-step production method of polyether ether ketone by capillary on-line crystallization	201911151947.1	2019/11/22	已受理Has accepted	发明Invention
7	一种导热、电磁屏蔽、高强度PEEK复合材料及其制备方法 A PEEK composite material with thermal conductivity, electromagnetic shielding, high strength and its production method	202010230653.4	2020/3/27	已受理Has accepted	发明Invention

## 权威机构检测认证

Authorized certificate

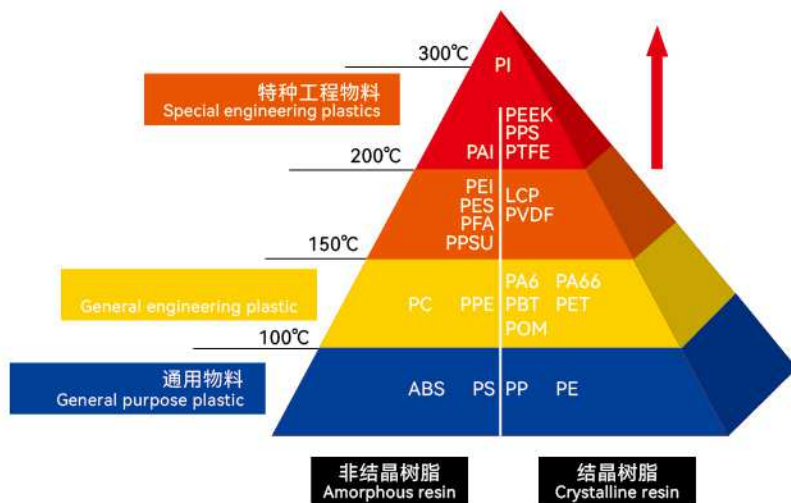


# PEEK等高性能特种工程塑料简介

PEEK and property

## 塑料分类

Plastic classification



PEEK因其分子中含有大量苯环结构而表现出非常优异的综合性能

PEEK shows excellent overall performance due to its large amount of benzene ring structure in its molecule

PEEK (聚醚醚酮) 树脂是一种高性能特种热塑性材料, 是商业化聚芳醚酮类树脂中最重要的品种之一。目前, 聚醚醚酮以其优异的电气性能、机械性能、耐高温性能、耐腐蚀性能等, 被广泛的应用于石油、食品加工、汽车和航空航天等领域。

PEEK (polyetheretherketone) resin is a high performance specialty thermoplastic material and is one of the most important varieties of commercial polyaryletherketone resins. At present, polyetheretherketone is widely used in petroleum, food processing, automotive and aerospace fields due to its excellent electrical and mechanical properties, high temperature resistance and corrosion resistance.

## PEEK特性优点

PEEK Advantages

环保无毒 FDA approved	自润滑 Self lubrication	耐磨损 Wearing resistance	耐腐蚀 Corrosion resistance
低噪音 Low noise	耐冲击 Impact resistance	耐高温 High temperature resistance	耐水解 Hydrolysis resistance
高强度 High strength	高纯度 High purity	质量轻 Light weight	生物相容性好 Good Biocompatibility

## PEEK主要牌号及其典型性能指标

### PEEK Main Material Grade and Typical Properties

#### 机械性能 Mechanical behavior

项目 Item	测试标准或仪器 Test standard or instrument	单位 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
拉伸强度 (23°C) Tensile Strength	ISO 527	MPa	95	175	250	145	70
拉伸模量 (23°C) Tensile Modulus	ISO 527	GPa	3.8	11	23	12.5	/
断裂伸长率 (23°C) Elongation at Break	ISO 527	%	35	2.0	1.5	2.2	/
弯曲强度 (23°C) Bending Strength	ISO 178	MPa	155	235	350	220	118
弯曲模量 (23°C) Bending Modulus	ISO 178	GPa	3.5	10	21	11	/
简支梁冲击强度 (无缺口) Charpy Impact Strength	ISO 179/1U	kJ/m <sup>2</sup>	No break	55	45	32	48
悬臂梁冲击强度 (缺口) IZOD Impact Strength	ISO 180/A	kJ/m <sup>2</sup>	4	6	6.5	4	/

#### 热性能 Thermal performance

项目 Item	测试标准或仪器 Test standard or instrument	单位 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
熔点 Melting Point	ISO 11357	°C	343	343	343	343	343
热变形温度 Distortion Temperature	ISO 75A-f	1.8MPa, °C	152	315	315	293	150
连续使用温度 Continuous Using Temperature	UL 746B	°C	260	260	260	260	240
热膨胀系数 Coefficient of Thermal Expansion	ASTM D696	ppm K <sup>-1</sup>	45	22	15	22	6
导热系数 Thermal Conductivity	ISO /CD22007-4	W / (m·K)	0.29	0.32	0.95	0.86	1.5

#### 电性能 Electrical performance

项目 Item	测试标准或仪器 Test standard or instrument	单位 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
介电强度 (2mm) Dielectric Strength	IEC 60243-1	kV/mm	20	19	/	/	19
介电常数 Dielectric Constant	IEC 62631	-	3.0	3.3	/	/	2.7
表面电阻 Surface Resistivity	GB/T31838.3	Ω	10 <sup>15</sup>	10 <sup>14</sup>	/	/	10 <sup>15</sup>
体积电阻率 Volume Resistivity	IEC 62631	Ω·cm	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>5</sup>	10 <sup>4</sup>	/

#### 其它性能 Other performance

项目 Item	测试标准或仪器 Test standard or instrument	单位 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
颜色 Colour	-	-	本色	本色	黑色	黑色	黑色
熔融指数 (400°C, 2.16kg) Melt Flow Rate	ISO 1133	g/10min	6-10	2-5	1-3	2-5	/
密度 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
吸水率 (23°C, 24Hrs) Water Absorption	ISO 62-1	%	0.07	0.05	0.04	0.05	0.15
成型收缩率 Mould shrinking percentage	平行于流动方向	%	1.2	0.4	0.1	0.3	1.3
	垂直于流动方向	%	1.5	0.8	0.5	0.6	1.8
洛氏硬度 Rockwell Hardness	GB/T 3398.2	HRR	118	119	121	108	113
易燃性等级 Flammability Rating	UL 94	/	V-0	V-0	V-0	V-0	/
摩擦系数 Friction Coefficient	ASTM D3702	100N-120rpm	0.30-0.38	0.38-0.46	0.15-0.25	0.18-0.30	/

\*此参数是代表值, 不是保证值。如有需要可来电咨询我司技术部索要更详细的技术指标!

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

牌号 Brand number	PEEK5600G	PEEK5600CF30	PEEK5600GF30	PEEK5600LF30
树脂原料 PEEK Resin				
板棒管型材 PEEK Sheet Rod/Tube				
成品零件 PEEK Product				

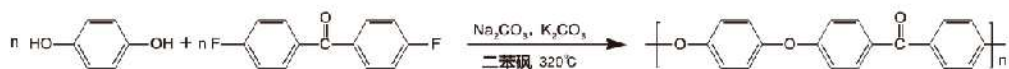


## PEEK树脂原料

### PEEK Resin

我所生产的PEEK采用吉林大学的专利技术，在非质子极性溶剂中，以二苯砜为溶剂，4,4'-二氟二苯甲酮与对苯二酚为单体在碱金属碳酸盐存在的条件下，高温缩聚而成。在聚合过程中，通过控制聚合的粘度到达控制PEEK分子量的目的。

为满足客户的多方面的需要，我们会对PEEK进行改性，加入碳纤维、玻璃纤维等增强材料用以提高PEEK的力学性能；加入PTFE、二硫化钼等用以提高PEEK的自润滑能力，进而提高耐磨性能；加入二氧化钛、二氧化锆等用以提高力学刚性和保证电气性能。此外为满足客户需要，我们可以提供白色、黑色、黄色、绿色等多种颜色PEEK粒子。



Our PEEK material adopts the patented technology of Jilin University, In the aprotic polar solvent, diphenyl sulfone is used as solvent, and 4,4'-difluorobenzophenone and hydroquinone are used as monomers. In the presence of an alkali metal carbonate, it is formed by polycondensation at a high temperature. During the polymerization, the purpose of controlling the molecular weight of PEEK is achieved by controlling the viscosity of the polymerization.

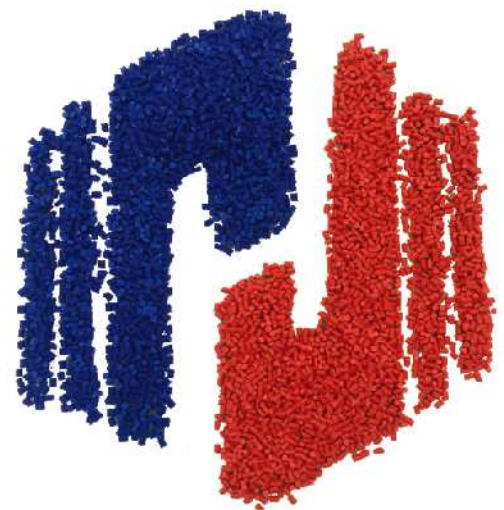
In order to meet the various needs of customers, we will modify PEEK, adding carbon fiber, glass fiber and other reinforcing materials to improve the mechanical properties of PEEK; adding PTFE, molybdenum disulfide, etc. to improve the self-lubricating ability of PEEK, and then Improve wear resistance; add titanium dioxide, zirconium dioxide, etc. to improve mechanical rigidity and ensure electrical performance. In addition, in order to meet customer needs, we can provide white, black, yellow, green and other color PEEK particles.

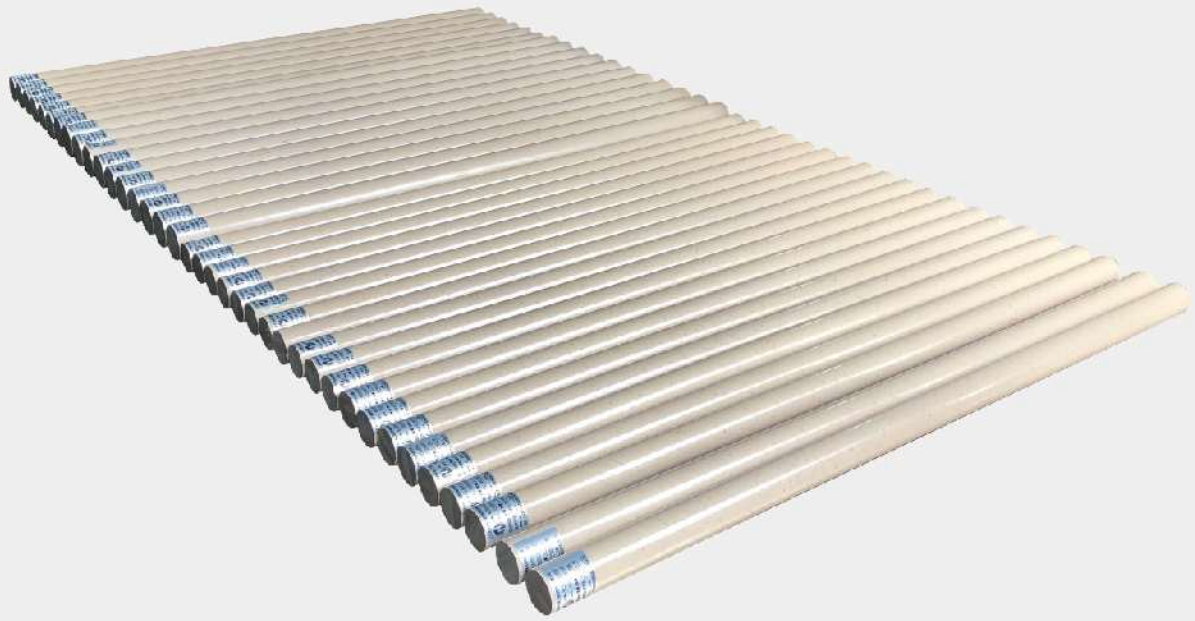




PEEK具有突出的耐高低温性、阻燃性、耐辐射性以及良好的机械性能,使其在航空工业中可作为超高温导线;在石油工业中可作为潜油泵电机绕组线及连接线,在原子能发电站中可作为核岛驱动机构的绕组线圈长期在辐照条件下使用。

PEEK has outstanding properties like high and low temperature resistance, flame retardant, radiation resistance and mechanical properties, which makes it can be used as ultra high temperature conductor in aerospace industry. In the petroleum industry, it can be used as the submerged pump motor winding wire and connecting line. In the atomic power plant, the winding coil which can be used as the nuclear island driving mechanism is used under irradiation conditions for a long time.





## PEEK连续挤出棒材

### PEEK Rod

采用连续挤出工艺生产的PEEK棒材,更加适用于小批量和大规格尺寸的产品通过机加工方式进行生产。直径3-300mm范围的PEEK棒都可挤出生产,长度一般为1000或3000mm也可根据客户要求非标裁切,现有近百种直径规格挤出模具,常年备用库存。

Extruded PEEK rod (natural or modified) from dia 3mm to dia 300mm, length from 1000mm to 3000mm, All the diameters we keep ready stock. Special diameter according to order is also available.

材质Material	直径Diameter(mm)	长度Length(mm)	颜色Color
PEEK5600G	3~300	1000、3000	本色、黑色 Natural、Black
PEEK5600CF30	5~180	1000、3000	黑色 Black
PEEK5600LF30	5~180	1000、3000	黑色 Black
PEEK5600GF30	5~260	1000、3000	本色 Natural
ESD PEEK	5~260	1000、3000	黑色Black



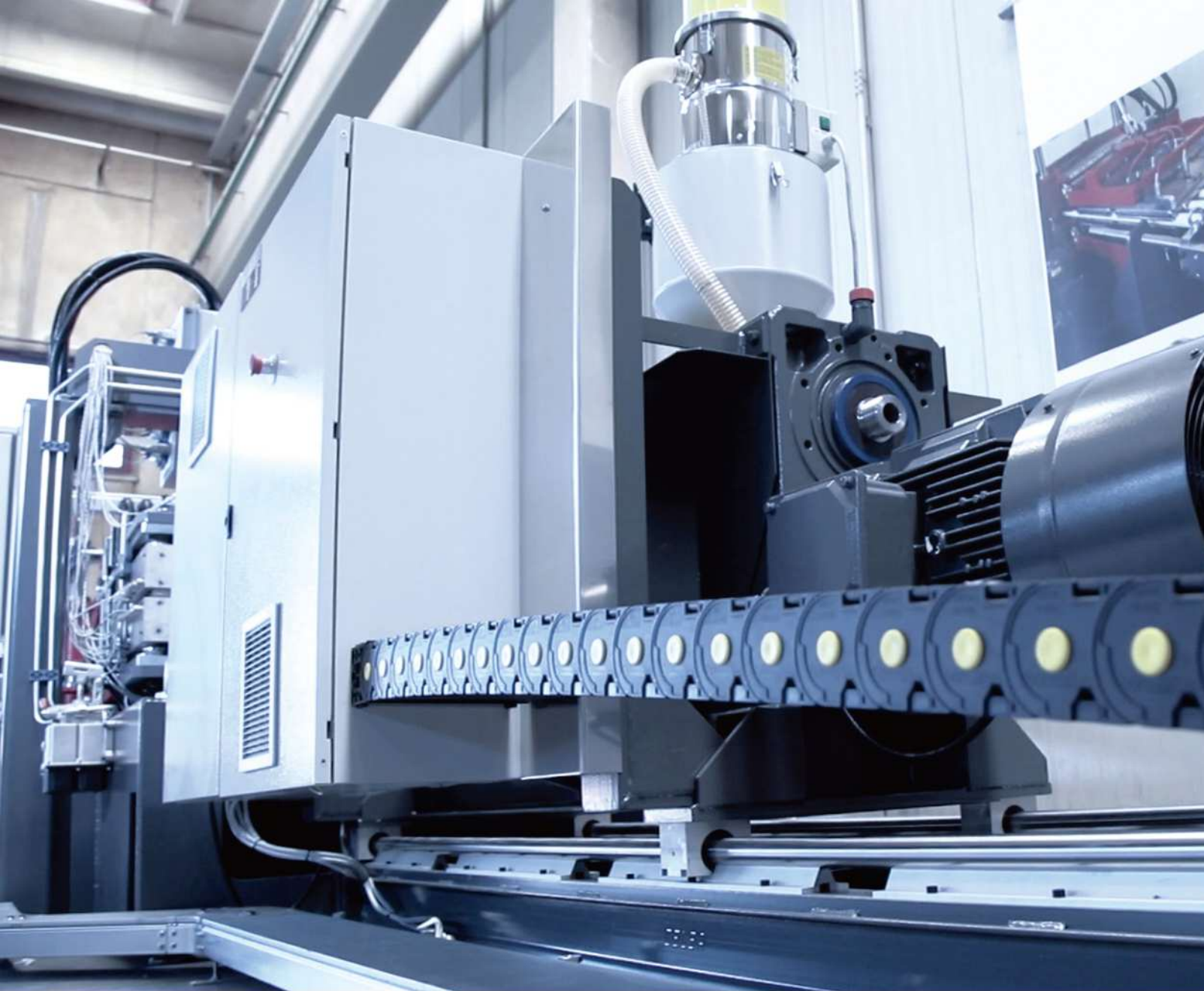
PEEK棒材规格表  
PEEK Rod Specification Table

	棒材直径 (mm)	尺寸公差 (mm)	圆度公差 (mm)	每米重量 (kg/m)			
				PEEK5600G	PEEK5600CF30	PEEK5600GF30	PEEK5600LF30
1	3	+0.1/+0.6	0.1	0.01	0.01	0.01	0.01
2	4	+0.1/+0.6	0.1	0.02	0.02	0.02	0.02
3	5	+0.1/+0.6	0.1	0.03	0.04	0.04	0.04
4	6	+0.1/+0.6	0.1	0.05	0.05	0.06	0.06
5	8	+0.1/+0.8	0.2	0.06	0.07	0.08	0.08
6	10	+0.1/+0.8	0.2	0.11	0.13	0.14	0.13
7	12	+0.2/+1.2	0.3	0.16	0.17	0.19	0.18
8	13	+0.2/+1.2	0.3	0.20	0.21	0.23	0.22
9	15	+0.2/+1.2	0.3	0.25	0.27	0.29	0.28
10	16	+0.2/+1.2	0.3	0.27	0.28	0.31	0.29
11	18	+0.2/+1.2	0.3	0.36	0.38	0.42	0.39
12	20	+0.2/+1.2	0.3	0.45	0.45	0.53	0.51
13	22	+0.3/+1.5	0.3	0.53	0.56	0.61	0.58
14	25	+0.3/+1.5	0.3	0.67	0.65	0.76	0.72
15	26	+0.3/+1.5	0.3	0.73	0.78	0.86	0.81
16	28	+0.3/+1.5	0.3	0.84	0.92	1.03	0.95
17	30	+0.3/+1.5	0.3	0.94	0.97	1.18	1.02
18	32	+0.3/+1.5	0.3	1.07	1.12	1.29	1.22
19	33	+0.3/+1.5	0.3	1.19	1.28	1.39	1.31
20	35	+0.3/+2.0	0.3	1.35	1.34	1.42	1.35
21	38	+0.3/+2.0	0.3	1.52	1.66	1.81	1.71
22	40	+0.3/+2.0	0.3	1.71	1.76	2.02	2.02
23	42	+0.3/+2.0	0.3	1.91	2.05	2.22	2.11
24	45	+0.3/+2.0	0.3	2.13	2.32	2.56	2.39
25	50	+0.3/+2.0	0.3	2.66	2.81	3.13	3.14
26	53	+0.3/+2.0	0.3	2.95	3.15	3.45	3.26
27	55	+0.3/+2.0	0.3	3.14	3.64	3.72	3.15
28	60	+0.3/+2.5	0.3	3.95	4.16	4.6	4.21
29	65	+0.3/+2.5	0.3	4.37	4.76	5.42	4.37
30	70	+0.6/+2.5	0.35	5.51	5.61	6.23	5.82

	棒材直径 (mm)	尺寸公差 (mm)	圆度公差 (mm)	每米重量 (kg/m)			
				PEEK5600G	PEEK5600CF30	PEEK5600GF30	PEEK5600LF30
31	72	+0.6/+2.5	0.35	5.44	5.86	6.27	6.07
32	75	+0.6/+2.5	0.35	5.99	6.36	6.92	6.54
33	78	+0.6/+2.5	0.35	6.37	6.86	7.35	7.1
34	80	+0.6/+3	0.35	7.08	7.61	7.94	7.82
35	85	+0.6/+3	0.35	7.67	8.22	8.81	8.43
36	90	+0.6/+3	0.35	8.55	9.39	9.54	9.67
37	93	+0.6/+3	0.35	9.02	9.71	10.4	10.1
38	95	+0.6/+3	0.35	9.43	10.13	11.08	10.42
39	100	+0.6/+3	0.35	10.73	10.81	12.09	11.44
40	105	+0.6/+3	0.35	11.47	12.35	13.23	12.79
41	110	+0.6/+3	0.35	12.93	12.91	14.59	13.57
42	115	+0.6/+3	0.35	13.53	14.78	16.06	15.22
43	120	+0.6/+3.5	0.35	15.44	16.42	17.62	16.67
44	125	+0.6/+3.5	0.4	16.18	17.21	18.73	17.74
45	130	+0.6/+3.5	0.4	20.08	19.21	21.82	19.57
46	140	+0.6/+3.5	0.4	20.55	21.66	23.78	22.89
47	150	+1.1/+5.0	0.4	23.81	26.29	27.64	26.36
48	160	+1.1/+5.0	0.5	26.85	29.81	33.71	30.67
49	165	+1.1/+5.0	0.5	29.01	30.18	33.89	31.02
50	170	+1.1/+5.0	0.5	30.22	32.49	35.04	33.43
51	180	+1.1/+5.0	0.5	33.99	35.93	38.94	36.88
52	190	+1.1/+5.0	0.5	37.86	/	/	/
53	200	+1.1/+5.0	1.00	43.26	/	/	/
54	210	+1.1/+5.0	1.00	46.08	/	/	/
55	220	+1.3/+6.0	1.00	50.79	/	/	/
56	230	+1.3/+6.0	1.00	55.56	/	/	/
57	250	+1.5/+6.5	1.00	65.51	/	/	/
58	260	+1.5/+6.5	1.00	71.12	/	/	/
59	300	+2.0/+15.0	2.0	92.10	/	/	/

备注: 实际重量个别规格可能有少许出入。请以实际称重为准。  
Note: The actual weight is subject to weighing.





## PEEK连续挤出板材

PEEK Sheet/Plate

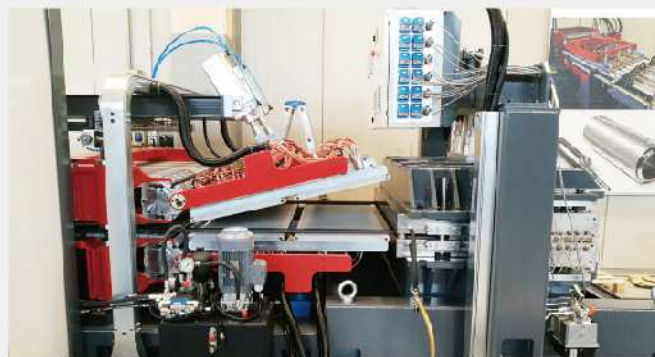
君华股份引进PEEK型材挤出生产线，挤出1250mm宽大尺寸PEEK板材，将君华股份挤出的板材宽度从600mm宽突破到1250mm，将满足阀门等行业大尺寸PEEK零件对超宽PEEK板材的需求，更好的提高生产效率、提高PEEK产品质量，保证交期，降低成本。同时宽的板材在排版裁切机加工时材料利用率更高。

We extruded PEEK sheet (natural or modified) sizes of 600mm width or 1250mm width. 1250mm width is now the biggest width for PEEK sheet in the world. Sheet thickness from 1mm to 60mm. All the thicknesses we keep ready stock.



材质Material	宽度Width(mm)	厚度Thickness (mm)	长度Length(mm)	颜色Color
PEEK5600G	600~1250	6~100	1000、3000	本色、黑色、红色、黄色Natural, Black, Red, Yellow
PEEK5600CF30	600~1250	6~60	1000、3000	黑色 Black
PEEK5600LF30	600~1250	6~60	1000、3000	黑色 Black
PEEK5600GF30	600~1250	6~60	1000、3000	本色、黑色Natural, Black
ESD PEEK	600	6~60	1000	黑色Black
CF/PEEK	600、1000	2~50	1000、1200	黑色Black





PEEK板材规格表  
PEEK Sheet Specification Table

	规格尺寸 (mm) 宽度*厚度Size(W*T)	尺寸公差 (mm)		规格尺寸 (mm) 宽度*厚度Size(W*T)	尺寸公差 (mm)		规格尺寸 (mm) 宽度*厚度Size(W*T)	尺寸公差 (mm)		特殊规格尺寸 (mm) 宽度*厚度Size(W*T)	尺寸公差 (mm)
1	600 X 5	+0.1/+1.0	21	600 X 60	+0.3/+3.0	41	1250 X 25	+0.3/+1.5	59	185 X 173	+0.3/+5.0
2	600 X 6	+0.1/+1.0	22	600 X 65	+0.3/+3.0	42	1250 X 28	+0.3/+2.0	60	186 X 141	+0.3/+5.0
3	600 X 7	+0.1/+1.0	23	600 X 70	+0.3/+3.5	43	1250 X 30	+0.3/+2.0	61	207 X 78	+0.3/+5.0
4	600 X 8	+0.1/+1.5	24	600 X 75	+0.3/+3.5	44	1250 X 32	+0.3/+2.0	62	365 X 205	+0.3/+5.0
5	600 X 10	+0.1/+1.5	25	600 X 80	+0.3/+4.0	45	1250 X 35	+0.3/+2.0	63	407 X 125	+0.3/+5.0
6	600 X 12	+0.3/+1.5	26	600 X 85	+0.3/+4.0	46	1250 X 40	+0.3/+2.0			
7	600 X 15	+0.3/+1.5	27	600 X 90	+0.3/+4.0	47	1250 X 45	+0.3/+2.0			
8	600 X 16	+0.3/+1.5	28	600 X 95	+0.3/+4.0	48	1250 X 50	+0.3/+2.5			
9	600 X 18	+0.3/+1.5	29	600 X 100	+0.3/+5.0	49	1250 X 55	+0.3/+2.5			
10	600 X 20	+0.3/+1.5	30	1250 X 5	+0.1/+1.0	50	1250 X 60	+0.3/+3.0			
11	600 X 22	+0.3/+1.5	31	1250 X 6	+0.1/+1.0	51	1250 X 65	+0.3/+3.0			
12	600 X 25	+0.3/+1.5	32	1250 X 7	+0.1/+1.0	52	1250 X 70	+0.3/+3.5			
13	600 X 28	+0.3/+2.0	33	1250 X 8	+0.1/+1.5	53	1250 X 75	+0.3/+3.5			
14	600 X 30	+0.3/+2.0	34	1250 X 10	+0.1/+1.5	54	1250 X 80	+0.3/+4.0			
15	600 X 32	+0.3/+2.0	35	1250 X 12	+0.3/+1.5	55	1250 X 85	+0.3/+4.0			
16	600 X 35	+0.3/+2.0	36	1250 X 15	+0.3/+1.5	56	1250 X 90	+0.3/+4.0			
17	600 X 40	+0.3/+2.0	37	1250 X 16	+0.3/+1.5	57	1250 X 95	+0.3/+4.0			
18	600 X 45	+0.3/+2.0	38	1250 X 18	+0.3/+1.5	58	1250 X 100	+0.3/+5.0			
19	600 X 50	+0.3/+2.5	39	1250 X 20	+0.3/+1.5						
20	600 X 55	+0.3/+2.5	40	1250 X 22	+0.3/+1.5						

备注: 实际重量个别规格可能有少许出入。请以实际称重为准。PEEK板长度为1000~3000mm, 可根据要求定制长度。

Note: The actual weight is subject to weighing. The length of PEEK sheet ranges from 1000mm to 3000mm, which can be customized according to requirements.





## PEEK连续挤出片材

### PEEK Sheet

采用连续挤出工艺加工的PEEK片材表面光洁度高, 尺寸均匀性好, 广泛应用于电子, 纺织印染及航空等领域。

PEEK sheet processed by continuous extrusion process has high surface finish and uniform size, and is widely used in electronics, textile printing and aerospace.



### PEEK片材规格表

#### PEEK Sheet Specification Table

序号Serial number	规格尺寸 (mm) 厚度*宽度*长度Size(T*W*L)	重量Weight (kg/m)
1	(0.1- 0.4)*1360*1000	0.18- 0.72
2	(0.5- 0.8)*680*1000	0.44- 0.72
3	1*600*1000	0.9
4	2*650*1000	1.9
5	3*650*1000	2.8
6	4*650*1000	3.4
7	5*650*1000	4.3



## PEEK连续挤出管材

### PEEK Tube

采用连续挤出工艺生产的PEEK管，解决了横压工艺产品高度受限及注塑工艺容易产生内部收缩孔的技术难题，同时减少损耗，降低了机加工成本，可加工成密封圈，活塞环，耐磨轴套及阀座等环类零件，广泛应用于石油化工、电子半导体等行业领域。

The PEEK tube produced by the continuous extrusion process solves the technical problem that the molding process product is highly restricted and the injection molding process is prone to generate internal shrinkage holes. At the same time, it reduces the waste of material and reduce machining costs. The tube can be processed into ring parts such as seal ring, piston ring, wear sleeve and valve seal, which are widely used in petrochemical, electronic semiconductor and other industries.



## 3D打印PEEK细丝

### 3D Printed PEEK Filament

PEEK细丝: 高韧性, 高强度PEEK细丝通过连续挤出工艺成型, 尺寸稳定性好, 可连续成型几千米不断裂, 广泛用于3D打印等行业。

PEEK filament: PEEK filament of high flexibility and high strength is produced through continuous extrusion molding. It is of good dimensional stability and can be molding without break for thousands of meters, which is widely applied in 3D print industry.



#### PEEK细丝规格表

##### PEEK Filament Specification Table

序号Serial number	规格Size/mm	序号Serial number	规格Size/mm
1	Φ0.15	6	Φ1.0
2	Φ0.2	7	Φ1.5
3	Φ0.25	8	Φ1.75
4	Φ0.3	9	Φ2
5	Φ0.5	10	Φ3.0

其他尺寸可定制化生产。  
other sizes are available for customized production.

颜色可选Color available:

本色 | 黑色 | 蓝色 | 绿色 | 紫色 | 红色 | 橙色 | 黄色 | 粉色  
natural | black | blue | green | violet | red | orange | yellow | pink



#### PEEK毛细管规格表

##### PEEK Capillary Specification Table

序号 Serial number	外径×内径 OD×ID (mm)	序号 Serial number	外径×内径 OD×ID (mm)
1	0.5×0.3~0.4	21	2.3×0.3~2.2
2	0.6×0.3~0.5	22	2.4×0.3~2.3
3	0.7×0.3~0.6	23	2.5×0.3~2.4
4	0.8×0.3~0.7	24	2.6×0.3~2.5
5	1/32"×0.25/0.5	25	2.7×0.3~2.6
6	0.9×0.3~0.8	26	2.8×0.3~2.7
7	1.0×0.3~0.9	27	2.9×0.3~2.8
8	1.1×0.3~1.0	28	3.0×0.3~2.9
9	1.2×0.3~1.1	29	1/8"×1/16"/0.5/0.75 1.0/1.2/2.0/2.2
10	1.3×0.3~1.2	30	3.2×0.3~3.0
11	1.4×0.3~1.3	31	4.95×4.15/4.25 4.35/4.55
12	1.5×0.3~1.4	32	9.52×8.92
13	1/16"×0.1/0.13/0.25 0.38/0.5/0.75/1.0/1.2	33	9.86×9.26
14	1.6×0.3~1.5	34	10×8.7
15	1.7×0.3~1.6	35	12×10/11
16	1.8×0.3~1.7	36	13×12
17	1.9×0.3~1.8	37	17.1×16.1
18	2.0×0.3~1.9	38	22.6×22.1
19	2.1×0.3~2.0		
20	2.2×0.3~2.1		

其他尺寸可定制化生产。  
other sizes are available for customized production.

#### PEEK毛细管规格表

##### PEEK Heat Shrinkable Tubing Specification Table

序号 Serial number	外径×内径 OD×ID (mm)
1	5.4 × 5.1
2	8.2 × 7.9

其他尺寸可定制化生产。  
other sizes are available for customized production.



PEEK管材规格表  
PEEK Tube Specification Table

	外径×内径 OD×ID (mm)	外径公差 (mm)	内径公差 (mm)	圆度公差 (mm)		外径×内径 OD×ID (mm)	外径公差 (mm)	内径公差 (mm)	圆度公差 (mm)		外径×内径 OD×ID (mm)	外径公差 (mm)	内径公差 (mm)	圆度公差 (mm)
1	23 X 12	0/+1.2	-1.2/0	0.5	42	105 X 75	0/+2.5	-2.5/0	1.0	83	205 × 169	0/+4.0	-4.0/0	2.0
2	24 X 19	0/+1.2	-1.2/0	0.5	43	105 X 79	0/+2.5	-2.5/0	1.0	84	205 × 181	0/+4.0	-4.0/0	2.0
3	33 X 18	0/+1.5	-1.5/0	0.5	44	107 X 89	0/+2.5	-2.5/0	1.0	85	207 × 170	0/+4.0	-4.0/0	2.0
4	37 X 17	0/+1.5	-1.5/0	0.5	45	113 X 59	0/+2.5	-2.5/0	1.0	86	208 × 180	0/+4.0	-4.0/0	2.0
5	39 X 19	0/+1.5	-1.5/0	0.5	46	113 X 70	0/+2.5	-2.5/0	1.0	87	214 × 186	0/+4.0	-4.0/0	2.0
6	39 X 28	0/+1.5	-1.5/0	0.5	47	113 X 81	0/+2.5	-2.5/0	1.0	88	224 × 128	0/+4.0	-4.0/0	2.0
7	46 X 21	0/+1.5	-1.5/0	0.6	48	113 X 89	0/+2.5	-2.5/0	1.0	89	222 × 141	0/+4.0	-4.0/0	2.0
8	46 X 30	0/+1.5	-1.5/0	0.6	49	119 X 89	0/+2.5	-2.5/0	1.0	90	222 × 195	0/+4.0	-4.0/0	2.0
9	49 X 33	0/+1.5	-1.5/0	0.6	50	120 X 90	0/+2.5	-2.5/0	1.0	91	228 × 210	0/+4.0	-4.0/0	2.0
10	51 X 29	0/+2.0	-2.0/0	0.6	51	120 X 100	0/+2.5	-2.5/0	1.0	92	240 × 190	0/+4.0	-4.0/0	2.0
11	51 X 37	0/+2.0	-2.0/0	0.6	52	126 X 74	0/+3.0	-3.0/0	1.0	93	238 × 170	0/+4.0	-4.0/0	2.0
12	56 X 40	0/+2.0	-2.0/0	0.6	53	126 X 86	0/+3.0	-3.0/0	1.0	94	239 × 190	0/+4.0	-4.0/0	2.0
13	61 X 35	0/+2.5	-2.5/0	0.6	54	126 X 103	0/+3.0	-3.0/0	1.0	95	239 × 210	0/+4.0	-4.0/0	2.0
14	61 X 39	0/+2.5	-2.5/0	0.6	55	129 X 85	0/+3.0	-3.0/0	1.0	96	241 × 146	0/+4.0	-4.0/0	2.0
15	61 X 55	0/+2.5	-2.5/0	0.6	56	129 X 99	0/+3.0	-3.0/0	1.0	97	250 × 120	0/+4.0	-4.0/0	3.0
16	65 X 35	0/+2.5	-2.5/0	0.6	57	129 X 106	0/+3.0	-3.0/0	1.0	98	251 × 166	0/+4.0	-4.0/0	3.0
17	65 X 39	0/+2.5	-2.5/0	0.6	58	130 X 99	0/+3.0	-3.0/0	1.0	99	253 × 189	0/+5.0	-5.0/0	3.0
18	66 X 30	0/+2.5	-2.5/0	0.6	59	134 X 54	0/+3.0	-3.0/0	1.0	100	255 × 190	0/+5.0	-5.0/0	3.0
19	66 X 35	0/+2.5	-2.5/0	0.6	60	134 X 98	0/+3.0	-3.0/0	1.0	101	260 × 214	0/+5.0	-5.0/0	3.0
20	66 X 45	0/+2.5	-2.5/0	0.6	61	134 X 104	0/+3.0	-3.0/0	1.0	102	260 × 220	0/+5.0	-5.0/0	3.0
21	66 X 49	0/+2.5	-2.5/0	0.6	62	134 X 109	0/+3.0	-3.0/0	1.0	103	266 × 233	0/+5.0	-5.0/0	3.0
22	71 X 48	0/+2.5	-2.5/0	0.8	63	136 X 54	0/+3.0	-3.0/0	1.0	104	283 × 226	0/+5.0	-5.0/0	3.0
23	73 X 41	0/+2.5	-2.5/0	0.8	64	138 X 100	0/+3.0	-3.0/0	1.0	105	283 × 236	0/+5.0	-5.0/0	3.0
24	78 X 48	0/+2.5	-2.5/0	0.8	65	142 X 74	0/+3.0	-3.0/0	1.0	106	289 × 267	0/+5.0	-5.0/0	3.0
25	78 X 55	0/+2.5	-2.5/0	0.8	66	142 X 118	0/+3.0	-3.0/0	1.0	107	292 × 233	0/+5.0	-5.0/0	3.0
26	80 X 60	0/+2.5	-2.5/0	0.8	67	144 X 110	0/+3.0	-3.0/0	1.0	108	303 × 239	0/+6.0	-6.0/0	3.0
27	82 X 35	0/+2.5	-2.5/0	0.8	68	146 X 120	0/+3.0	-3.0/0	1.0	109	324 × 262	0/+6.0	-6.0/0	3.0
28	82 X 50	0/+2.5	-2.5/0	0.8	69	155 X 120	0/+3.0	-3.0/0	2.0	110	324 × 277	0/+6.0	-6.0/0	3.0
29	85 X 53	0/+2.5	-2.5/0	0.8	70	157 X 130	0/+3.0	-3.0/0	2.0	111	324 × 286	0/+6.0	-6.0/0	3.0
30	86 X 53	0/+2.5	-2.5/0	0.8	71	160 X 89	0/+3.0	-3.0/0	2.0	112	334 × 239	0/+6.0	-6.0/0	3.0
31	90 X 45	0/+2.5	-2.5/0	0.8	72	160 X 112	0/+3.0	-3.0/0	2.0	113	335 × 295	0/+6.0	-6.0/0	3.0
32	90 X 56	0/+2.5	-2.5/0	0.8	73	160 X 130	0/+3.0	-3.0/0	2.0	114	345 × 315	0/+6.0	-6.0/0	3.0
33	90 X 70	0/+2.5	-2.5/0	0.8	74	160 X 140	0/+3.0	-3.0/0	2.0	115	362 × 312	0/+7.0	-7.0/0	4.0
34	91 X 45	0/+2.5	-2.5/0	0.8	75	170 X 127	0/+3.0	-3.0/0	2.0	116	377 × 313	0/+7.0	-7.0/0	4.0
35	91 X 56	0/+2.5	-2.5/0	0.8	76	172 X 134	0/+3.0	-3.0/0	2.0	117	377 × 343	0/+7.0	-7.0/0	4.0
36	91 X 69	0/+2.5	-2.5/0	0.8	77	184 X 150	0/+3.0	-3.0/0	2.0	118	413 × 350	0/+8.0	-8.0/0	4.0
37	91 X 74	0/+2.5	-2.5/0	0.8	78	187 X 157	0/+3.0	-3.0/0	2.0	119	415 × 355	0/+8.0	-8.0/0	4.0
38	94 X 70	0/+2.5	-2.5/0	0.8	79	189 X 138	0/+3.0	-3.0/0	2.0	120	428 × 366	0/+8.0	-8.0/0	4.0
39	97 X 56	0/+2.5	-2.5/0	0.8	80	192 X 150	0/+3.0	-3.0/0	2.0	121	428 × 392	0/+8.0	-8.0/0	4.0
40	97 X 65	0/+2.5	-2.5/0	0.8	81	193 X 160	0/+3.0	-3.0/0	2.0	122	432 × 398	0/+8.0	-8.0/0	4.0
41	105 X 68	0/+2.5	-2.5/0	1.0	82	203 X 122	0/+4.0	-4.0/0	2.0	123	458 × 404	0/+8.0	-8.0/0	4.0

## PEEK连续挤出线缆

### PEEK Cable

PEEK具有突出的耐高低温性、阻燃性、耐辐射性以及良好的机械性能,使其在航空工业中可作为超高温导线;在石油工业中可作为潜油泵电机绕组线及连接线,在原子能发电站中可作为核岛驱动机构的绕组线圈长期在辐照条件下使用;同时也广泛用于高速牵引机车。

PEEK has outstanding properties like high and low temperature resistance, flame retardant, radiation resistance and mechanical properties, which makes it can be used as ultra high temperature conductor in aerospace industry. In the petroleum industry, it can be used as the submerged pump motor winding wire and connecting line. In the atomic power plant, the winding coil which can be used as the nuclear island driving mechanism is used under irradiation conditions for a long time; it is also widely used in high-speed traction locomotives.



## 连续碳纤维CF/PEEK热塑性复合材料预浸料、层压板及制品

CF/PEEK Thermoplastic Composite Prepreg, Laminate and Product

PEEK作为一种典型的高性能热塑性树脂，特种工程塑料之首，各项性能突出，与连续碳纤维复合，将两种材料的性能进行有效结合，综合性能更加优异。连续碳纤维CF/PEEK热塑性复合材料因其优异的性能，已被广泛应用于航空航天、军工、医疗、汽车等领域，也是目前各大高校、科研机构、企业单位研究关注的焦点。

As a typical high-performance thermoplastic resin, PEEK is the top of its special engineering plastics. It has outstanding performance and is compounded with continuous carbon fiber to effectively combine the properties of the two materials, and the overall performance is even better. Continuous carbon fiber CF/PEEK thermoplastic composite materials have been widely used in aerospace, military, medical, automotive and other fields due to their excellent performance. They are also the focus of research in universities, research institutes and enterprises.

### 连续碳纤维CF/PEEK复合材料特性优点

Characteristics of Continuous carbon fiber CF/PEEK composite material

透X光  
X-ray Transparent

耐腐蚀  
Corrosion Resistance

耐高温  
High Temperature Resistance

比重小  
Low Specific Gravity

高疲劳强度  
High Fatigue Resistance

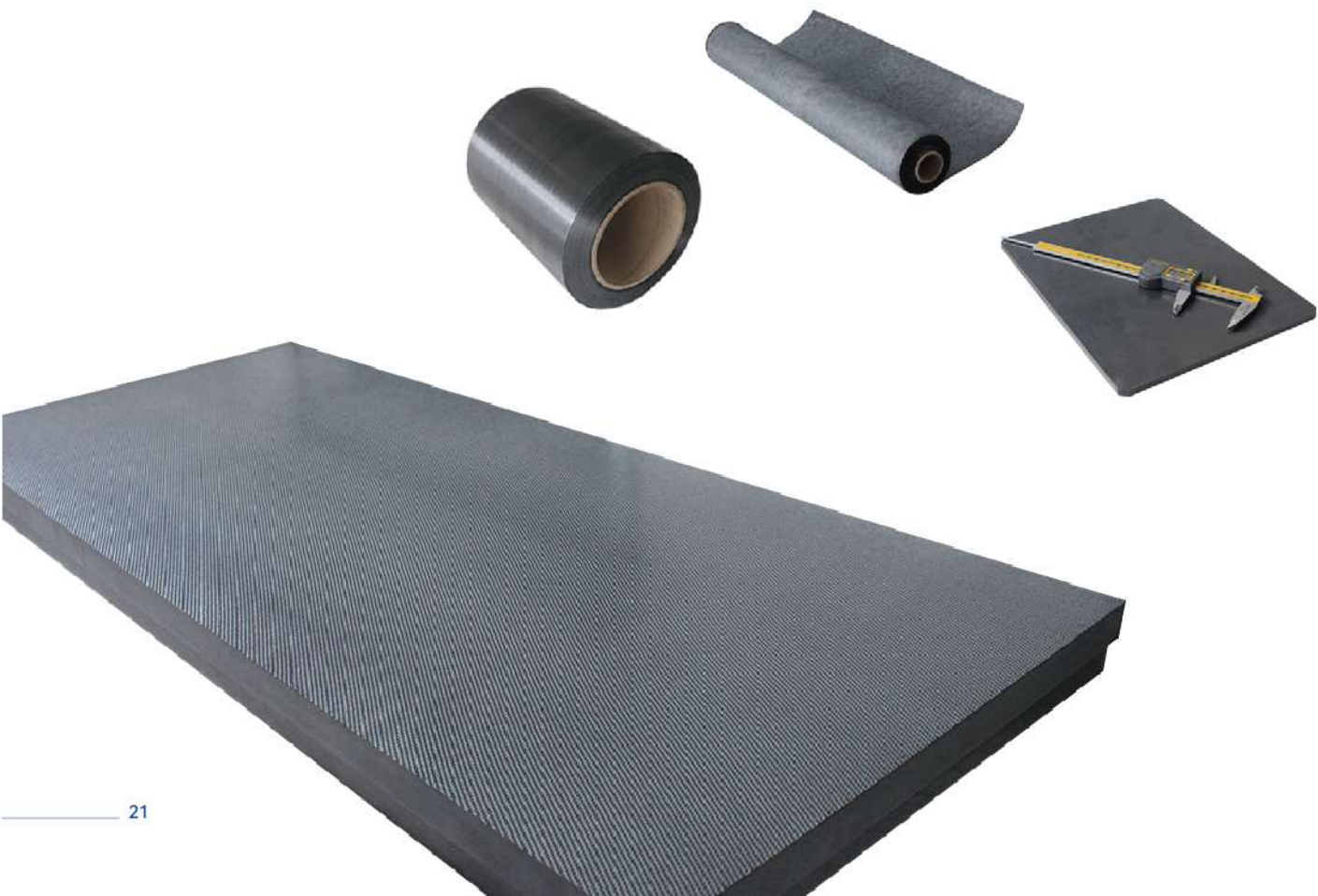
层间结合强度好  
Good interlayer Bonding Strength

尺寸稳定  
Dimensional Stability

抗冲击高强度  
Impact Resistance and High Strength

### 连续碳纤维CF/PEEK热塑性复合材料预浸料、层压板

Continuous Carbon Fiber CF/PEEK Thermoplastic Composite Prepreg, Laminate





## 连续碳纤维CF/PEEK复合材料性能

Continuous Carbon Fiber CF/PEEK Performance Table

测试项目 Item	单位 Unit	单向预浸料0° UD Tape 0°	单向预浸料0°/90° UD Tape 0°/90°	织物预浸料 Fabric Semi- prep	测试标准 Test standard
碳纤维质量含量Carbon Fiber Mass Content	%	66	66	60	ASTM D3529
密度Density	g/cm <sup>3</sup>	1.58	1.58	1.55	ASTM D792
硬度Hardness	/	105	104	102	ASTM D785
拉伸强度Tensile Strength	MPa	2200	880	700	ASTM D3039
拉伸模量Tensile Modulus	GPa	130	73	70	ASTM D3039
弯曲强度Flexural Strength	MPa	2000	1400	900	ASTM D7264
弯曲模量Flexural Modulus	GPa	116	65	73	ASTM D7264
压缩强度Compressive strength	MPa	1200	670	630	ASTMD 6641
压缩模量Compressive Modulus	GPa	120	60	56	ASTMD 6641
热变形温度Distortion temperature*	°C	332	332	332	ASTM D648
冲击后压缩强度Compression strength after impact	MPa	220	225	230	ASTM D7137
层间断裂韧性Type I interbedded fracture toughness	J/m <sup>2</sup>	1400	1410	1430	ASTM D5528
短梁强度Short beam intensity	MPa	110	100	80	ASTM D2344
面内剪切强度- 0.5%In- plane Shear Strength- 0.5%	MPa		140	145	ASTM D3518
面内剪切模量- In- plane Shear Modulus	GPa		4.5	4.5	ASTM D3518

## 连续碳纤维CF/PEEK复合材料与其他材料性能对比

Continuous Carbon Fiber CF/PEEK Compare With Other Materials

测试项目Item	单位Unit	双向编织预浸料层压板 Bidirectional braided prepreg laminate	PEEK5600CF30	铝合金-6063Aluminium Alloy-6063
碳纤维质量含量Carbon Fiber Mass Content	%	60	30	0
密度Density	g/cm <sup>3</sup>	1.55	1.4	2.69
拉伸强度Tensile Strength	MPa	700	220	≥205
弯曲强度Flexural Strength	MPa	900	298	≥170

## 连续CF/PEEK复合材料规格表

CF/PEEK Sheet Specification Table

序号Serial number	规格(mm)	序号Serial number	规格(mm)
1	200*155	5	1080*680
2	310*260	6	1350*680
3	330*250	7	1200*1000
4	440*290		

## 连续碳纤维CF/PEEK复合材料制品

CF/PEEK Products



### 航空航天、军工 Aerospace, Military

机身壁板、紧固系统、雷达罩、机翼油箱检修盖板。

Body panel, fastening system  
Radome, wing tank access cover.



### 其他行业应用 Other industry applications

PEEK星轮、荧光分析仪器行业用复合材料面板、衬套(泵)、轴承(泵)、垫片(泵)、织机杠杆、密封圈。

PEEK star wheel, composite panel for fluorescent analysis instrument industry, bushing (pump), bearing (pump), gasket (pump), loom lever, sealing ring.



### 连接角片 Connecting corner pieces

航空飞机上的典型应用，应用于桁梁或者桁条的搭接部位，耐冲击、抗疲劳、抗磨损、耐高低温性能好。

Typical application on aviation aircraft, applied to the lap joint of truss or stringer, good impact resistance, fatigue resistance, wear resistance, high and low temperature resistance.



### 医疗器械行业 Medical device industry

外部固定设备(杆、转轴)、牵引器、颈椎支架、整形外科工具。

External fixation equipment (rods, shafts), tractors, cervical vertebrae, orthopedic tools.

# PPSU板棒管及异形件

PPSU Sheet/Rod/Tube/Special shaped

PPSU是一种无定形、高性能热塑性塑料。相比PSU和PEI，它具有更佳的抗冲击性和耐化学性。

经过高压蒸汽灭菌失效试验测试，证明PPSU的抗水解性优异，超过其它无定形热塑性塑料。事实上，PPSU可以无限次置于蒸汽灭菌环境中，而高压蒸汽被广泛用作医疗元件灭菌方式，这使得PPSU成为医疗设备的不错选材。

PPSU is kind of amorphous, high-performance thermoplastic plastic. Compared with PSU and PEI, PPSU has better impact resistance and chemical resistance.

Through high pressure steam sterilizing test, PPSU is proved to have the best hydrolysis resistant better than other amorphous plastic. In fact, PPSU can stand million times of high pressure steam sterilizing, which makes PPSU a very good choice for medical application.



## PPSU主要特性优点 PPSU Key Advantages

- |                         |   |
|-------------------------|---|
| ◆ 耐高温 (180°C)           | ◆ High temperature resistance                                     |
| ◆ 高硬度                   | ◆ High hardness   |
| ◆ 良好的化学兼容性              | ◆ Good chemical compatibility                                     |
| ◆ 高抗冲击强度                | ◆ Good impact resistance  |
| ◆ 高尺寸稳定性                | ◆ Good dimension stability  |
| ◆ 良好的电绝缘性               | ◆ Good electricity insulation                                     |
| ◆ 优异的抗水解性 (适用于重复蒸汽灭菌消毒) | ◆ Good hydrolysis resistance                                      |
| ◆ 优异的抗高能辐射性 (γ射线和X射线)   | ◆ Excellent resistance to high energy radiation (γ Ray and X Ray) |
| ◆ 优良的介电性能               | ◆ Good dielectric properties                                      |

## PPSU板棒颜色及色码 PPSU Sheet/Rod Color

颜色Color	黑色 Black	自然色 Natural	浅蓝色 Light blue	深蓝色 Dark Blue	绿色 Green	黄色 Yellow	灰色 Grey	红色 Red	白色 White
色号 Color number	BL001	N000	BB09	DB0099	GR350	Y159	GG6126	R8040	W002

色号适合产品类型: 圆棒、异形棒、厚板及机加工零件 (非注塑件)  
Color number is for both stock shapes and machined parts

PPSU (聚亚苯基砜) 性能表  
PPSU Data sheet

未着色产品的典型值, 在23°C下 Typical values for uncolored product at 23°C		测试方法 Testing method	单位 Unit	典型值 Data
机械性能 Mechanical Properties				
拉伸强度 Tensile Strength		ISO 527-1/-2	MPa	70
拉伸模量 Tensile Modulus		ISO 527-1/-2	MPa	2270
屈服伸长率 Tensile Elongation(Yield)		ISO 527-1/-2	%	7.8
弯曲强度 Flexural Strength		ISO 178	MPa	105
弯曲模量 Flexural Modulus		ISO 178	MPa	2400
Izod 缺口冲击强度 Notched Izod Impact		ISO 180/A	KJ/m <sup>2</sup>	68
热性能 Thermal Properties				
热变形温度 HDT/A @1.8MPa Heat Deflection Temperature		ISO 75-1/-2	°C	196
玻璃化转变温度, DSC, 10°C/min Glass Transition Temperature		ISO 11357-1/-2	°C	220
线性膨胀系数@23°C, CLTE-Flow		ISO11359-1/-2	E <sup>-6</sup> /K	55
阻燃性 Flammability				
厚度 1.5mm Flame Rating@1.5mm thickness		UL94	Class	V-0
电性能 Electrical Properties				
体积电阻率 100V Volume Resistivity		IEC 60093	Ω·m	>1E13
表面电阻率 100V Surface Resistivity		IEC 60093	Ω	>1E15
相对介电常数 Dielectric Constant	@100HZ	IEC 60250		3.8
	@1MHZ			3.7
介电损耗因子 Dissipation factor	@100HZ	IEC 60250		E <sup>-4</sup>
	@1MHZ			E <sup>-4</sup>
介电强度 K20/K20, (60*60*1 mm3) Dielectric Strength		IEC 60243-1	KV/mm	44
相对漏电起痕指数, CTI		IEC 60112		150
一般及加工性能 General Properties and Processability				
密度 Density		ISO1183	g/cm <sup>3</sup>	1.29
饱和吸水率@23°C/50%相对湿度 Moisture Absorption, Equilibrium 23°C/50% r.h		ISO62	%	0.6
模塑收缩率 (平行) Mold shrinkage(Flow)		ISO 2577, 294-4	%	0.9
模塑收缩率 (垂直) Mold shrinkage (Vertical)		ISO 2577, 294-4	%	1
熔融指数 MFR @365°C/5kg		ISO 1133	g/10min	28-38
熔体温度范围, 注塑/挤出成型 Processing (Melt)Temp, Injection/Extrusion			°C	350-390
模具温度范围, 注塑/挤出成型 Mold Temp, Injection/Extrusion			°C	140-180

备注 Notes:

典型值：此典型值不应被解释为技术规范。

Typical values: These are not to be construed as specifications.



PPSU棒材规格表  
PPSU Rod Specification Table

序号 Serial number	棒材直径 (mm)	序号 Serial number	棒材直径 (mm)	序号 Serial number	棒材直径 (mm)	序号 Serial number	棒材直径 (mm)
1	5	13	25	25	48	37	95
2	6	14	26	26	50	38	96.5
3	8	15	26.7	27	53	39	100
4	10	16	28	28	55	40	106
5	12	17	30	29	60	41	110
6	13	18	32	30	65	42	115
7	15	19	33	31	70	43	120
8	16	20	35	32	75	44	125
9	18	21	38	33	80	45	130
10	20	22	40	34	85	46	140
11	21	23	42	35	90	47	150
12	22	24	45	36	94		

PPSU在医疗行业的典型应用  
Typical Applications of PPSU in the Medical Industry



PPSU电池盒  
PPSU Battery Box



PPSU脊柱延长片  
PPSU Spine Extension



PPSU穿刺手柄  
PPSU Puncture Handle



PPSU球头  
PPSU Joint Head

# PI板棒及制品

PI Sheet/Rod/Products

## 超高温聚酰亚胺(PI)高分子聚合物

Ultra High Temperature Polyimide (PI) Polymer

### 特性优点

- ◆ 耐高温
- ◆ 耐磨损
- ◆ 抗变形
- ◆ 电气绝缘
- ◆ 耐化学性、耐润滑油、油和溶剂
- ◆ 等离子体、放射线
- ◆ 真空中超低的放气量
- ◆ 出色的机加工性

### 应用领域

现已广泛应用在汽车、半导体、办公设备、电子电气设备、科学仪器、热流道、石化设备、通用机械、纺织机械、激光印刷、医疗设备等领域。

- ◆ 模具热流道隔热板、隔热环
- ◆ 芯片测试盒
- ◆ 激光压印辊
- ◆ 半导体行业工装夹具
- ◆ 滚动、滑动、止推垫片
- ◆ 齿轮
- ◆ 玻璃行业托架
- ◆ 活塞环
- ◆ 复印机分离爪
- ◆ 半导体芯片吸嘴
- ◆ 气相色谱密封圈
- ◆ 阀座
- ◆ 等离子割炬涡流环
- ◆ 汽车发动机垫片
- ◆ 微波零件

### Feature advantages

- ◆ High temperature resistance
- ◆ Wear resistance
- ◆ Anti-deformation
- ◆ Electrical insulation
- ◆ Chemical resistance, grease resistance, oil and solvent
- ◆ Plasma, radiation
- ◆ Ultra low deflation in vacuum
- ◆ Excellent machinability

### Application field

Now widely used in automotive, semiconductor, office equipment, electrical and electronic equipment, scientific instruments, hot runners, petrochemical equipment, general machinery, textile machinery, laser printing, medical equipment and other fields.

- ◆ Mould hot runner insulation board, insulation ring
- ◆ Chip test box
- ◆ Laser embossing roller
- ◆ Semiconductor industry fixture
- ◆ Rolling, sliding, thrust washer
- ◆ Gear
- ◆ Glass industry bracket
- ◆ Piston ring
- ◆ copier separation claw
- ◆ Semiconductor chip nozzle
- ◆ Gas Chromatography Seal
- ◆ Valve
- ◆ Plasma torch vortex ring
- ◆ Car engine gasket
- ◆ Microwave parts





PI (聚酰亚胺) 性能表  
PI Data sheet

检测项目 Test items	检测标准 Dielectric constant	单位 unit	JHPI-10	JHPI-10-21	JHPI-10-22	JHPI-HT	JHPI-YS	JSJHTPI-01	JSJHTPI-02
密度 Density	ISO 1183	g/cm <sup>3</sup>	1.40	1.43	1.7	1.4	1.36	1.32	1.36
拉伸强度 Tensile Strength	ISO 527	MPa	96	90	60	92	121	90	97
断裂伸长率 Elongation at break	ISO 527	%	10	5	2.5	8	13	8	8
弯曲强度 Bending strength	ISO 178	MPa	148	126	90	140	171	130	138
简支梁冲击强度 Charpy Impact strength	ISO 179	MPa	90	135	13	88	(No Break)	100	(No Break)
热变形温度 Heat distortion temperature	ISO 75-1/-2	°C	>300	>300	>300	>320	255	230	250
连续使用温度 Continuous using temperature	UL746B	°C	350	350	350	380	250	250	250

\*此参数是代表值, 不是保证值。如有需要可来电咨询我司技术部索要更详细的技术指标!

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

JHPI-10		JHPI-10-21	
			
<p>耐温等级高, 长期使用温度350°C, 瞬时温度达到400°C, 具有很好的加工特性, 可加工成棒材或者其他异形零件。                      With high temperature resistance level, the long-term use temperature is up to 350°C, and the instantaneous temperature reaches 400°C. Because of good processing characteristics, it can be processed into bars or other special-shaped parts.</p>		<p>长期使用温度350°C, 瞬时温度达到400°C以上, 添加了15%的石墨, 其摩擦系数低, 耐磨性更好。                      The long-term use temperature is 350°C, and the instantaneous temperature is above 400°C, added 15% of the Graphite, leading to a low coefficient of friction and better wear resistance.</p>	
JHPI-YS		JSJHTPI-01	
			
<p>一种半热塑性聚酰亚胺材料, 长时间使用温度可达250°C, 具有较高的尺寸稳定性和透明性。                      A semi-thermoplastic polyimide material can be used up to 250 °C for a long time, and it has high dimensional stability and transparency.</p>		<p>长期使用温度250°C, 优异的加工性能, 可通过注塑或者挤出工艺生产各种零件或者型材。                      Except Long-term use temperature of 250°C and excellent processing performance, it can be processed by injection molding or extrusion Production of various parts or profiles.</p>	

PI板材规格表

PI Sheet Specification Table

序号 Serial number	规格尺寸 (mm) 宽度*长度Size(W*L)	规格尺寸 (mm) 厚度Size(T)	序号 Serial number	规格尺寸 (mm) 宽度*长度Size(W*L)	规格尺寸 (mm) 厚度Size(T)
1	320 × 325	4	18	290 × 440	4
2	320 × 325	5	19	290 × 440	5
3	320 × 325	6	20	290 × 440	6
4	320 × 325	8	21	290 × 440	8
5	320 × 325	10	22	290 × 440	10
6	320 × 325	12	23	290 × 440	12
7	320 × 325	14	24	290 × 440	14
8	320 × 325	16	25	290 × 440	16
9	320 × 325	18	26	290 × 440	18
10	320 × 325	20	27	290 × 440	20
11	320 × 325	22	28	290 × 440	22
12	320 × 325	24	29	290 × 440	24
13	320 × 325	26	30	290 × 440	26
14	320 × 325	28	31	290 × 440	28
15	320 × 325	30	32	290 × 440	30
16	320 × 325	32	33	290 × 440	32
17	320 × 325	34	34	290 × 440	34

PI棒材规格表

PI Rod Specification Table

序号 Serial number	规格尺寸 (mm) 长度Size(L)	棒材直径 (mm)	序号 Serial number	规格尺寸 (mm) 长度Size(L)	棒材直径 (mm)
1	307 / 320	4	18	290 / 440	4
2	307 / 320	5	19	290 / 440	5
3	307 / 320	6	20	290 / 440	6
4	307 / 320	8	21	290 / 440	8
5	307 / 320	10	22	290 / 440	10
6	307 / 320	12	23	290 / 440	12
7	307 / 320	14	24	290 / 440	14
8	307 / 320	16	25	290 / 440	16
9	307 / 320	18	26	290 / 440	18
10	307 / 320	20	27	290 / 440	20
11	307 / 320	22	28	290 / 440	22
12	307 / 320	24	29	290 / 440	24
13	307 / 320	26	30	290 / 440	26
14	307 / 320	28	31	290 / 440	28
15	307 / 320	28	32	290 / 440	28
16	307 / 320	30	33	290 / 440	30
17	307 / 320	32	34	290 / 440	32
			35	290 / 440	34

# PEEK典型应用

PEEK Typical Application



## 航空航天军工工业

Aerospace and military

君华股份配合航天某所、航天某院等单位生产的的PEEK零件已成功应用于卫星、运载火箭及武器装备，助力中国航空航天及军工事业的发展。

Junhua chinaPEEK has been working with national aerospace research agency to supply our PEEK components to satellites, rockets, and weapons, we do our part to support Chinese aerospace and military development.



航空航天工业PEEK零件  
Aerospace PEEK Part



PEEK折弯管路  
PEEK Bending Pipe



PEEK线缆  
PEEK Cable



航空航天工业PEEK零件  
Aerospace PEEK Part



运载5号火箭高压密封阀芯  
PEEK Valve Core



核设施PEEK零件  
Nuclear PEEK Part



PEEK雷达天线罩  
PEEK Radar Radome



高温耐磨PEEK密封件  
PEEK Sealing Part



## 医疗器械行业

Medical Industry

PEEK具有耐高温、耐腐蚀、高强度、透X光、可耐受反复消毒、具有良好的生物相容性等特性优点，使其在医疗行业被广泛应用，现已配合国内外多家知名医疗器械单位开发生产，并成功应用于临床。为健康保驾护航，让新材料造福人类。

PEEK has the advantages of high temperature resistance, corrosion resistance, high strength, X-ray transmission, resistance to repeated disinfection, and good biocompatibility. It has been widely used in the medical industry and has been equipped with many well-known medical treatments in domestic and foreign. The unit is developed and produced and successfully applied to the clinic.





## 食品加工、饮料灌装机械工业

Food Processing and Filling Machine

利乐、新美星等国内外高端食品加工及饮料灌装设备生产商采用君华股份生产的近百种PEEK产品，广泛应用于清洗、消毒、杀菌、无菌包装等工艺过程。

Tetra Pak, Newamstar and many other famous companies from food processing and filling machinery industry are using PEEK components from Junhua, PEEK components are widely used in washing, sterilization, aseptic packaging process.



PEEK夹轨柱  
PEEK Clamp Column



PEEK拨叉  
PEEK Fork



PEEK滚轮  
PEEK Roller



PEEK小轴套  
PEEK Sleeve



PEEK瓶夹子  
PEEK Bottle Clamp



恒扭力PEEK旋盖头  
PEEK Capping Head

## 分析测试仪器行业

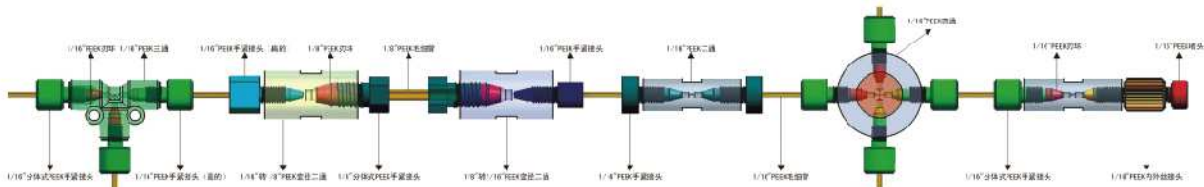
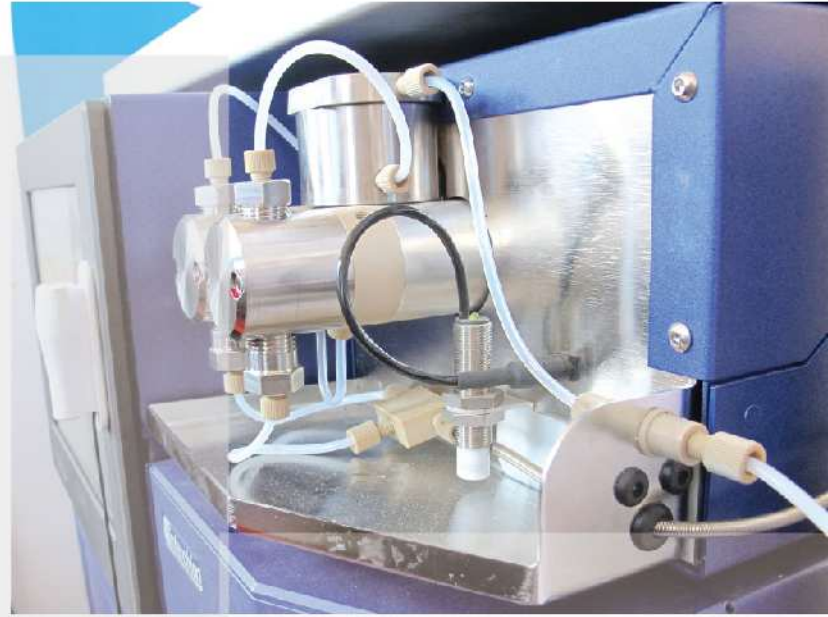
Analytical instrument

在分析测试仪器领域我们已经成功开发了八百多种高性能PEEK零件, 为国内外用户配套生产PEEK手紧接头、PEEK三通、PEEK毛细管、PEEK泵头、PEEK消解罐、PEEK色谱柱等典型分析仪器行业配件。标准件我们配备库存, 非标件也可以定制生产。

PEEK材料的高纯度、低释放, 不会干扰分离和提纯工艺, 而且具有出色的耐化学药品性以及生物兼容性。

In the field of analytical instruments, we have successfully developed more than 200 kinds of high-performance PEEK parts, and produce typical analytical instruments such as PEEK hand tight fitting, PEEK Union, PEEK capillary, PEEK pump head, PEEK digestion tank, PEEK column. Standard parts are equipped with stocks, and non-standard parts can also be customized.

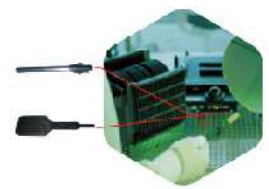
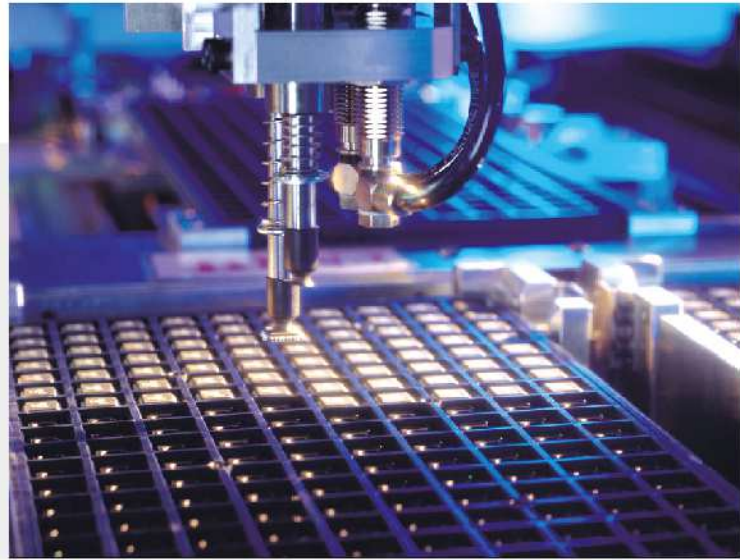
PEEK materials are high purity, low release, do not interfere with the separation and purification process, and have excellent chemical resistance and biocompatibility.



## 电子半导体行业 Semiconductor Industry

PEEK、PI具有耐高温、耐腐蚀、耐磨损、高纯度等特性优点，完全满足电子半导体行业苛刻的生产环境，保证其长期使用，提高设备使用的稳定性和可靠性。

PEEK, PI has the characteristics of high temperature resistance, corrosion resistance, wear resistance, high purity and other advantages, which fully meet the harsh electronic semiconductor industry production environment to ensure its long-term use and improve equipment stability and reliability.



PEEK吸笔杆及吸笔头  
PEEK Sucker and PEEK Sucker Head



PI隔块  
PI Partition



PEEK耐磨滚轮  
PEEK Wearing Roller



PEEK螺丝  
PEEK Screw



PEEK晶片夹  
PEEK Wafer Clamp



PEEK梳齿零件  
PEEK Comb Parts



## 石油、石化机械工业

Oil&Gas, Petrochemical Machinery Industry

PEEK具有耐化学腐蚀性，耐磨损等优点，可以保证设备的连续稳定运行，避免设备停工，保障装置安全运行。

PEEK with chemical corrosion resistance, wear resistance, etc., can ensure the continuous and stable operation of equipment to avoid equipment shut down, securing devices to run safely.



PEEK绝缘圈  
PEEK Insulation Cable Frame



石油钻杆用PEEK保护套  
Drilling Pipe Protector



PEEK球阀阀座  
PEEK Ball Valve Seat



PEEK前后堵  
PEEK End Plug



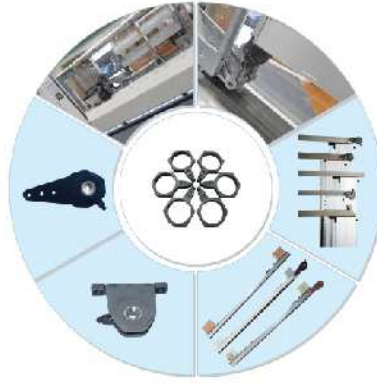
PEEK止推耐磨块  
PEEK Preventing Slider



PEEK扶正器  
PEEK Centralizer



PEEK开口密封环  
PEEK (Cut) Sealing Ring



## 纺织印染机械工业

Textile Machinery Industry

PEEK具备优异耐高温、耐磨损、自润滑性能,完美替代纺织印染机械设备上的铜滑块轴套等金属件,解决设备使用过程中存在的技术难题。并获得此行业客户的广泛认可和赞美。

PEEK's high temperature resistance, wearing resistance and self-lubrication, PEEK is widely used as Textile machinery components such as screw nut, bush and slider.



PEEK调幅螺母  
PEEK Screw nuts



PEEK外六角轴套  
PEEK Hexagon Bush



PEEK轴套  
PEEK Bush



PEEK倒油槽轴套  
MONFORTS PEEK Bush



PEEK碳纤维耐磨条  
PEEK Carbon Fiber Wear Strip



PEEK起落铁条  
PEEK Clamp Strip



PEEK防护罩替  
PEEK Shield



平板剥边器用PEEK斜齿板  
PEEK Bevel Plate For Flat Edge Stripper



PEEK外六角轴套  
PEEK Hexagon Sleeve



PEEK调幅螺母  
PEEK Screw Nut

## 汽车行业

### Automotive Industry

PEEK在汽车行业大有可为。国内近十家真空泵厂家选用江苏君华生产的PEEK耐磨滑片产品应用于汽车刹车助力及涡轮增压系统,可降低燃油消耗,减少对环境的影响,提高行车安全和驾驶舒适度。

PEEK has a very promising future in automotive industry. In China, nearly 10 automotive vacuum pump manufacturers use Jiangsu Junhua's PEEK wear-resistant slide which is used in automotive brake booster and turbo system, it can reduce fuel consumption, reduce environmental impact, improve driving safety and driving comfort.



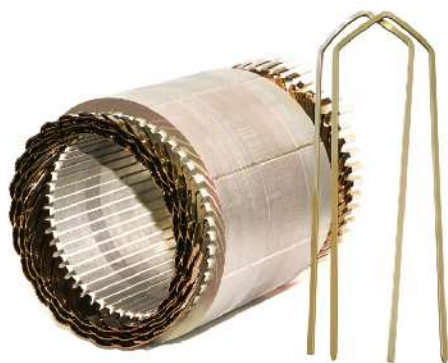
汽车刹车泵PEEK叶片  
PEEK slide, joint for automobile brake pump



汽车水泵叶轮用PEEK轴套  
PEEK bushing for automobile water pump



移动单元主体和副体  
PEEK part for oil pump



新能源汽车PEEK发卡式扁线电机  
NEV PEEK hair-pin winding



## PEEK型材检验设备

PEEK Profile Inspection Equipment

### 原材料性能检测设备

Performance Testing Equipment

#### 超声波检测仪

Ultrasonic Detector

主要用于检测产品内部是否有夹杂, 疏松, 裂纹, 气孔等缺陷。

It is mainly used to detect defects such as inclusions, looseness, cracks and pores inside the product.



#### 傅里叶红外光谱仪

FTIR Spectrometer

FTIR主要用于材质的识别, 拥有自动识别匹配功能, 能够区分PEEK、PPS、PPSU、PI等基团结构有差异的材料。

FTIR is mainly used for material identification. It has an automatic identification and matching function and can distinguish materials with different group structures such as PEEK, PPS, PPSU, and PI.



#### 热重分析仪 (TGA)

Thermal Gravimetric Analyzer

热重分析仪是一种利用热重法检测物质温度 - 质量变化关系的仪器。

A thermogravimetric analyzer is an instrument that uses thermogravimetry to detect the temperature-mass change relationship of a substance.



#### 差式扫描量热仪 (DSC)

Differential Scanning Calorimeter

差示扫描量热法是在程序温度控制下测量物质与参比物之间单位时间的能量差 (或功率差) 随温度变化的一种技术。

Differential scanning calorimetry is a technique that measures the energy difference (or power difference) per unit time between a substance and a reference as a function of temperature under programmed temperature control.





**密度检测仪**  
Density Detector

主要用于检测产品的实际密度  
Mainly used to detect the actual density of the product



**硬度测试仪**  
Hardness Tester

主要用于检测产品洛氏硬度  
mainly used to test Rockwell hardness of product



**万能试验机**  
Universal Testing Machine

主要用于检测产品拉伸弯曲以及模量等常规力学性能参数。(可以在-100-200°C进行恒温测试)  
Mainly used to test the general mechanical properties such as tensile bending and modulus of the product. (can be tested at -100-200 °C)



**冲击测试仪**  
Impact Tester

主要用于原材料检验, 检验冲击强度  
Mainly used for raw material inspection, inspection of impact strength



**X光异物检测设备**  
X-ray Foreign Matter Detection Equipment

主要用于检测产品在生产过程中是否带入异物, 如金属屑等。  
Mainly used to detect whether the product is brought into the foreign material during the production process, such as metal cutting.

## 尺寸外观检测设备

Dimensional appearance inspection equipment

### 影像测量仪

Image Measuring Instrument

主要用于检测一些二维尺寸精度和形位公差精度要求较高的产品，检测精度可达到0.001mm。

It is mainly used to detect some products with high dimensional accuracy and geometrical tolerance accuracy. The detection accuracy can reach 0.001mm.



### 三坐标

CMM

主要用于检测一些三维尺寸精度和形位公差精度要求较高的产品，检测精度可达到0.003mm。可以提供行业内认可的三坐标尺寸检测报告。

Mainly used to detect some products with high dimensional accuracy and geometric tolerance requirements. The detection accuracy can reach 0.0005mm and can provide an industry-recognized three-coordinate size inspection report.



### 光洁度仪

Finish Instrument

主要用控制一些对外观要求较高的产品，可以具体测量加工的产品表面光洁度数值。

It mainly controls some products with high requirements on appearance, and can specifically measure the surface finish value of processed products.

## 美国酷捷干冰去毛刺设备

### Cold Jet Dry Ice Deburring

能有效去除机加工产生的毛刺。包括细小孔交、叉孔等，且无残留，无污染。能有效防止因毛刺导致管路流量减少或堵塞。

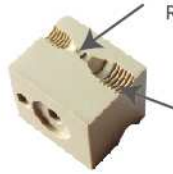
It Can effectively remove the burrs generated by machining, including small holes, cross-holes, etc., and no residue, no pollution. It can effectively prevent the reduction or blockage of pipeline flow caused by burrs .

### 干冰爆破去毛刺新技术

#### New Deburring Technology of Dry Ice Blasting



去除毛刺前      去除毛刺后  
Before deburring    After deburring



去除微孔处毛刺  
Removal of burrs in micropores

去除螺纹孔处毛刺  
Removal of burrs at threaded holes



### 色差仪

#### Colorimeter

用以比对每批次原料的色差值，保证每批次型材之间的颜色稳定。

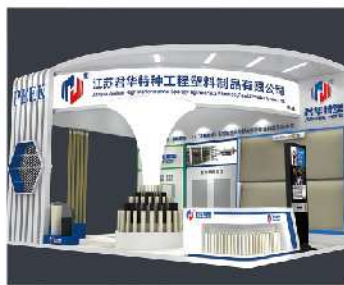
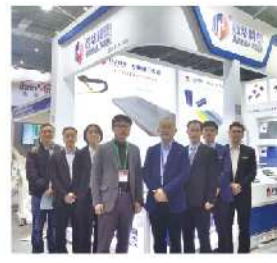
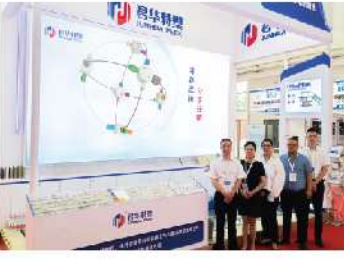
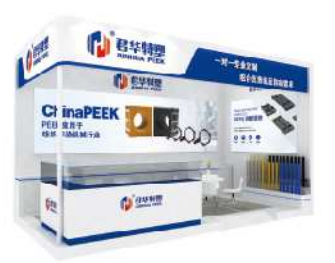
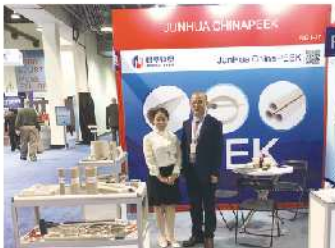
Used to compare the color difference of each batch raw materials, ensure color stability between each batch of profiles.

# 全球视野

Global Vision

以整体创新引领中国高性能特种工程塑料型材工业化进程 做世界级客户的最佳合作伙伴

Leading the Industrialization Process of China's High Performance Special Engineering Plastic Profiles with Overall Innovation as the Best Partner for World Customers



## PEEK销售网络

PEEK Sales Network

中国	China	法国	France	英国	United Kingdom	埃及	Egypt
美国	US	荷兰	Netherlands	马来西亚	Malaysia	比利时	Belgium
印度	India	巴基斯坦	Pakistan	西班牙	Spain	卡塔尔	Qatar
俄罗斯	Russia	伊朗	Iran	哥伦比亚	Colombia	沙特阿拉伯	Saudi Arabia
巴西	Brazil	阿根廷	Argentina	匈牙利	Hungary	乌兹别克斯坦	Uzbekistan
墨西哥	Mexico	阿联酋	United Arab Emirates	土耳其	Turkey	爱尔兰	Ireland
新加坡	Singapore	瑞士	Switzerland	克罗地亚	Croatia	孟加拉	Bangladesh
澳大利亚	Australia	韩国	Korea	捷克	Czech Republic	乌克兰	Ukraine
德国	Germany	南非	South Africa	意大利	Italy	秘鲁	Peru
罗马尼亚	Romania	保加利亚	Bulgaria	芬兰	Finland	丹麦	Denmark
泰国	Thailand	智利	Chile	约旦	Jordan	瑞典	Sweden
加拿大	Canada	越南	Vietnam	斯里兰卡	Sri Lanka		
印度尼西亚	Indonesia	波兰	Poland	伊拉克	Iraq		

## 合作客户

Collaborative Customers



中国航天科技集团有限公司  
China Aerospace Science and Technology Corporation



GE 梦想启动未来



中国航空工业集团公司  
AVIATION INDUSTRY CORPORATION OF CHINA



中国船舶重工集团公司  
CHINA SHIPBUILDING INDUSTRY CORPORATION



中国兵器工业集团有限公司  
CHINA NORTH INDUSTRIES GROUP CORPORATION LIMITED

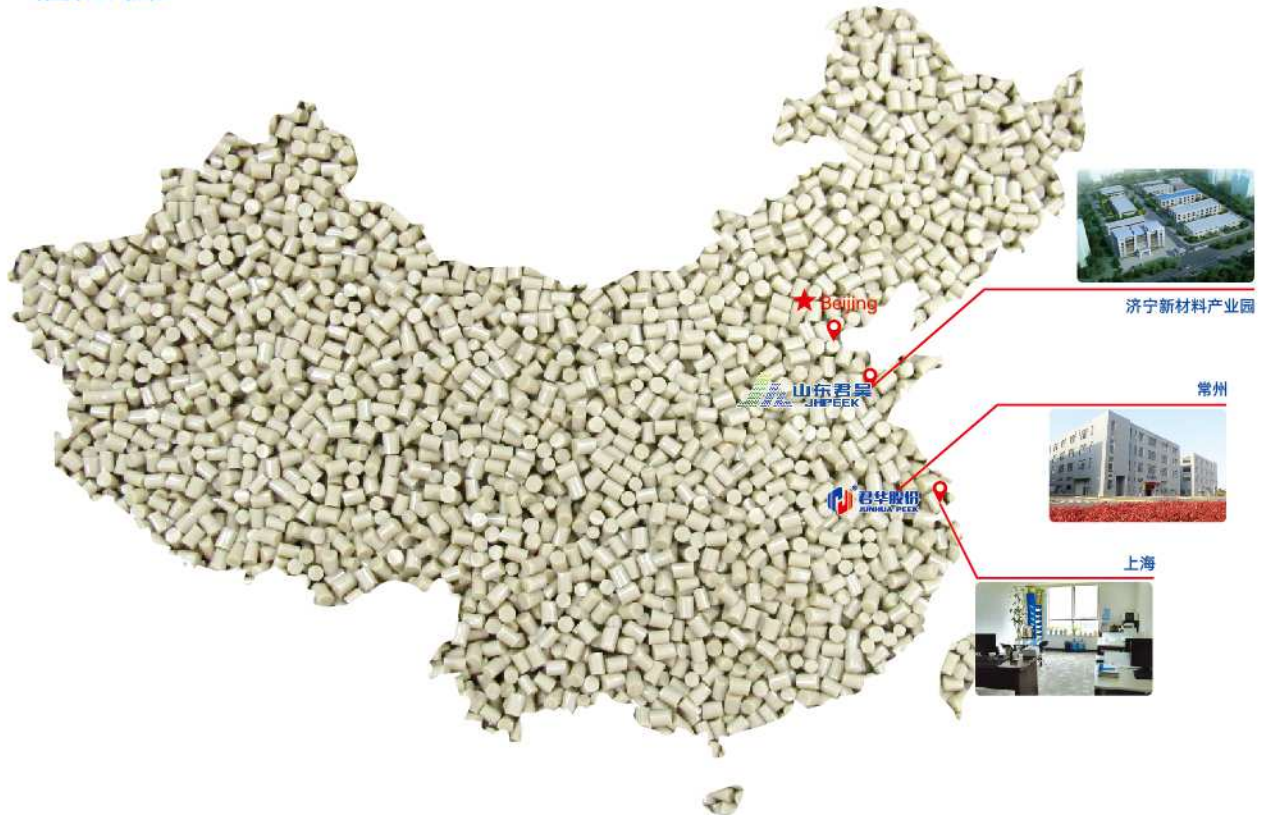


君华股份微信



君华股份微信公众号

德国  
JunDe HPP GmbH



济宁新材料产业园

常州

上海

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