

PEEK china



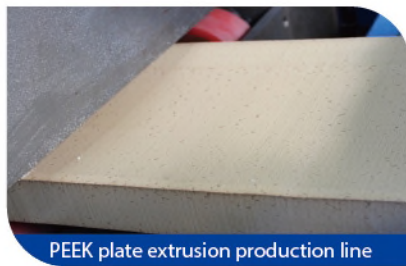
TAIZHOU ARK INTERNATIONAL TRADE CO.,LTD.

CORE ADVANTAGE

With the core of the technical advantages, to bring you the greatest value



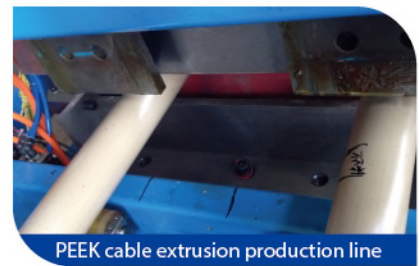
China's leading extrusion line for high performance engineering plastic



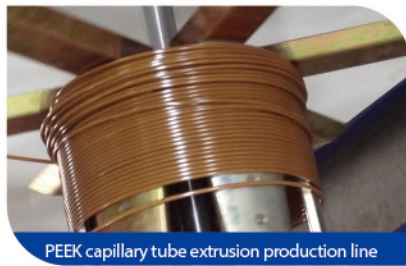
PEEK plate extrusion production line



Cable production line



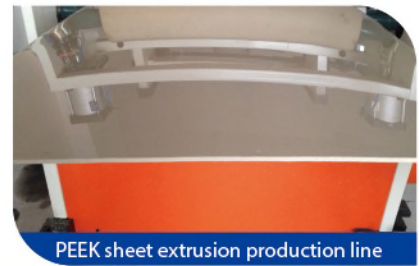
PEEK cable extrusion production line



PEEK capillary tube extrusion production line



PEEK tube extrusion production line



PEEK sheet extrusion production line

Continuous technology innovation, amounts of patent

Number	name	patent number	apply time	issuing time	type
1	PEEK Capillary tubes continuous extrusion machine and technology	ZL201310425335.3	2013.9	2017.3	Invention
2	PEEK rotor and its manufacturing technology	ZL201310423283.6	2013.9	2016.5	Invention
3	Wearing bush used in the harness frame of weaving machine	ZL201310423033.2	2013.9	2017.1	Invention
4	PEEK slim sheet continuous extrusion machine	ZL201420447189.4	2014.8	2014.12	utility model
5	PI rod continuous extrusion technology	201510124252.X	2015.6	Has accepted	Invention
6	A kind of PPSU continuous extrusion technology	201510355018.8	2015.6	Has accepted	Invention

Authorized certificate



TYPICAL PEEK ROD & SHEET

Product Application



PEEK5600G Continuous Extrusion Rod



PEEK5600G Rod



PEEK Sheet



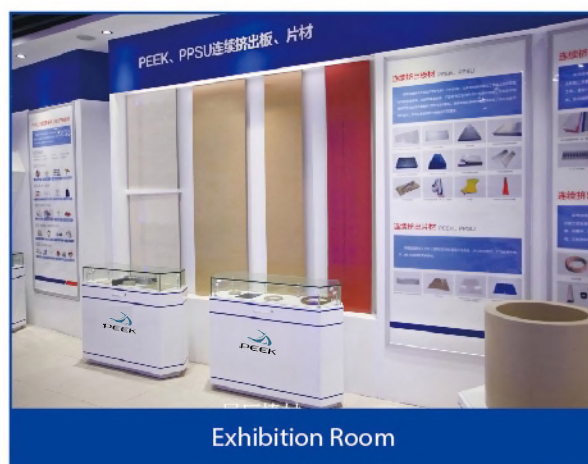
PEEK Rod



PEEK5600G Sheet

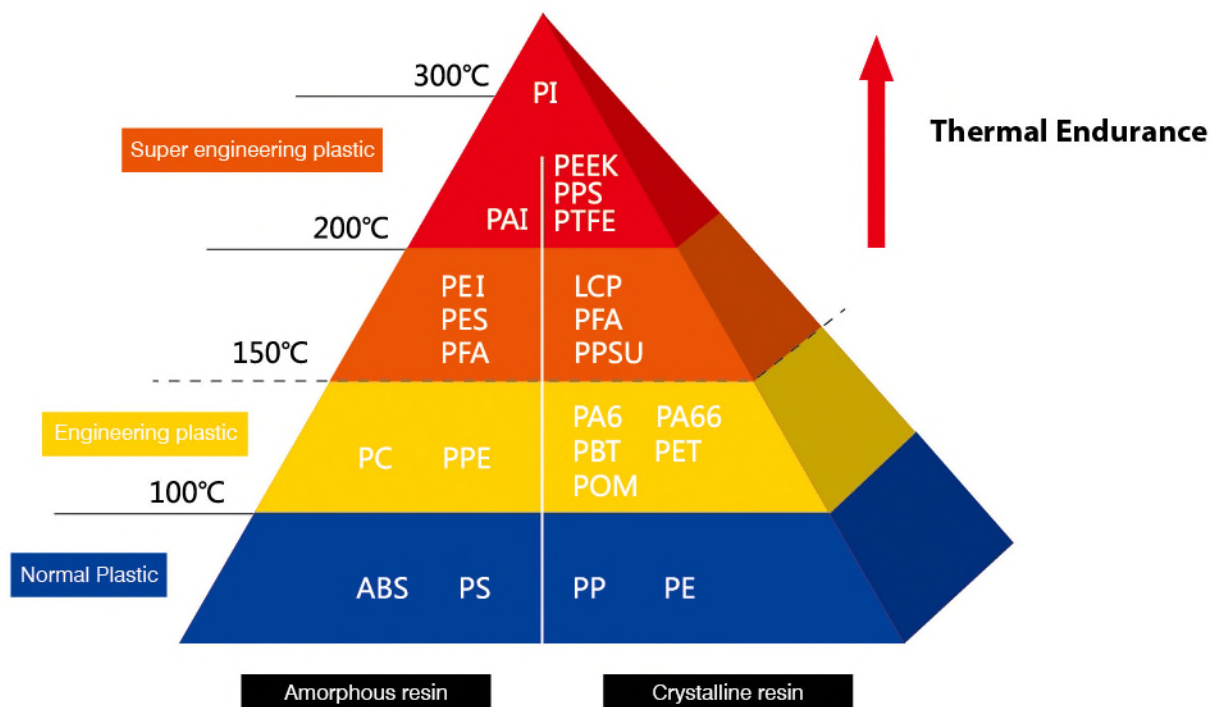


PEEK Rod and Sheet



PEEK and Its property

Catalogue



PEEK Brief



PEEK is a semi crystalline thermoplastic with excellent mechanical and chemical resistance properties that are retained to high temperatures. PEEK is used to fabricate items and also used in demanding applications. Such as bearings, piston parts, pumps, HPLC columns, compressor plate valves, and cable insulations. It is one of the few plastics compatible with ultra-high vacuum applications. It also has a proven track record in challenging environments such as aerospace, oil and gas, and semiconductor.

PEEK main material grade and typical properties

Item	Test Standard or Instrument	Unit	PEEK5600G	PEEK5600GF30	PEEK5600CF30	PEEK5600LF30
			100%PEEK	PEEK+30%Glass fiber	PEEK+30%Carbon fiber	PEEK+30%(Carbon fiber+Graphite+PTFE)
Color	-		Natural or Black	Natural or Black	Black	Black
Density	ISO 1183	g/cm ³	1.3±0.01	1.5±0.01	1.4±0.01	1.43±0.01
Water Abs. (25℃.24Hrs)	ISO 62	%	0.5	0.11	0.06	0.06
Mould shrinking percentage	3mm,170℃, Flow direction	%	1.2	0.4	0.1	0.3
	Perpendicular to flow direction	%	1.5	0.8	0.5	0.5
Melting point	DSC	℃	343	343	343	343
Distortion temperature	ASTM D648	℃	163	315	315	293
Continuous using temperature	UL 74685	℃	260	260	260	260
coefficient of thermal expansion	ASTM D696	10 ⁻⁵ ℃	4.7	2.2	1.5	2.2
Tensile strength(23℃)	ISO527-2/1B/50	Mpa	100	155	220	134
Tensile elongation(23℃)	ISO527-2/1B/50	%	34	2	1.8	2.2
Bending strength(23℃)	ISO 178	Mpa	163	212	298	186
Compressive strength(23℃)	ASTM D695	Mpa	118	215	240	150
Lzod impact strength(no gap)	ISO 180/U	KJ/m ²	No break	51	46	32
Rockwell hardness	ASTM D785		103	107	102	99
Water absorbtion (24h)	ISO 62	WT %	0.11	0.06	0.06	0.5
Flammable level	UL 94	V-0@mm	1.5	1.5	1.5	0.75
Dielectric strength	IEC 248	KV/mm	18	19		
Dielectric constant	IEC 250		3.2	3.3		
Surface resistivity		Ω	10 ¹⁵ Ω	10 ¹⁵ Ω	3×10 ⁶ Ω	5×10 ⁶ Ω
Friction coefficient		μ	0.30-0.38	0.38-0.46	0.28	0.18

If need other parameter, please contact us!



PEEK refining process

PEEK centrifugal separation

PEEK modified granulation

Analysis and testing room



The Global Vision



TAIZHOU ARK INTERNATIONAL TRADE CO.,LTD
Address:E801-802,Xintai Square Building,Jiaojiang
District,Taizhou,Zhejiang,China
Tel:+86-576-88805030
Fax:+86-576-88809380
Email:sales@peekchina.com
<http://www.peakchina.com>