

JUNHUA® PEEK5601G01

PEEK (PolyEtherEtherKetone) resin is a high-performance special thermoplastic material and one of the most important varieties of commercialized Poly-Aryl-Ether-Ketone resins. JUNHUA® PEEK 5601G01 is a medium melt flow rate grade, featuring low residual content and high purity (high level 01).

Features and advantages	Environmentally-friendly, Non-toxic, Self-lubricating, Wear-resistant, Corrosion-resistant
	Low noise, Impact resistant, High temperature resistant, Hydrolysis resistant
	High strength, High purity, Light weight
Application	Wire and cable field
RoHS / REACH	Pass
Color	Natural
Form	Granule
Processing methods	Injection moulding, Extrusion moulding
Store	Avoid light, Room temperature

Material Properties

Test Items	Test Standard or Instrument	Unit	Typical Value
Mechanical			
Tensile Strength (23°C)	ISO 527-2	MPa	95
Tensile Modulus (23°C)	ISO 527-1	GPa	3.6
Tensile Strain (23°C)	ISO 527-2	%	30
Flexural Strength (23°C)	ISO 178	MPa	150
Flexural Modulus (23°C)	ISO 178	GPa	3.5
Compressive Strength (23°C)	ISO 604	MPa	125
Charpy Unnotched Impact Strength (23°C)	ISO 179/1U	KJ/m ²	No break
Notched Izod Impact Strength (23°C)	ISO 180/A	KJ/m ²	6.5
Thermal			
Melting Point	DSC	°C	343
Deflection Temperature Under Load 1.8 MPa, Unannealed	ISO 75-2/Af	°C	152
Glass Transition Temperature	ISO 11357-2	°C	143
Continuous Using Temperature	UL 746B	°C	260
Coefficient Of Thermal Expansion	ISO 11359-2	ppm K ⁻¹	45
Flammable Level (1.6mm)	UL 94	/	V-0
Thermal Conductivity	ISO 22007	W/(m·K)	0.29

Electrical			
Dielectric Strength (2.0mm)	IEC 60243-1	KV/mm	23
Dielectric Constant (23°C, 1kHz)	IEC 60250	-	3.2
Surface Resistivity (23°C)		Ω	10 ¹⁶
Dissipation Factor (23°C, 1MHz)	IEC 60250	-	0.003
Other			
Color	-		Natural
Density	ISO 1183	g/cm ³	1.288
Water Abs. (25°C .24Hrs)	ISO 62	%	0.45
Mould Shrinking Percentage	parallel to the flow direction	%	1.0
	perpendicular to the flow direction	%	1.3
Poisson's ratio	ISO 527-2		0.4
Rockwell Hardness	ISO 2039-2:1987	HRR	119
Shore Hardness (Shore D, 23°C)	ISO 868		84.5
Friction Coefficient	ASTM D3702	μ	0.30-0.35
Melt Mass-Flow Rate (400°C, 2.16kg)	ISO 1133	g/10min	10
Purity level:	classified purity level (CoA document)		High Level 01

Typical Processing Information

	Unit	Typical Value
Injection		
Drying Temperature	°C	120-150
Drying Time	hr	3.0-5.0
Hopper Temperature	°C	< 100
Rear Temperature	°C	355
Middle Temperature	°C	360-365
Front Temperature	°C	370
Nozzle Temperature	°C	375
Mould Temperature	°C	170-200

Note :

1. Typical values are injection molding specifications. If you need other parameter, please contact us !
2. This performance index cannot be used as acceptance criteria.

Jiangsu Junhua HPP Co., Ltd.
<https://www.junhuaPEEK.com>

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