

## JUNHUA® PEEK5601G02

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 5601G02 is a medium melt flow rate grade, featuring low residual content and high purity (high-medium level 02).

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
<b>Mechanical</b>			
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 <sup>2</sup>	No break
Notched Izod Impact Strength (23°C)	ISO 180/A	KJ/m <sup>2</sup>	6.5
<b>Thermal</b>			
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 <sup>-1</sup>	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 <sup>16</sup>
Dissipation Factor (23°C, 1MHz)	IEC 60250	-	0.003
Other			
Color	-		Natural
Density	ISO 1183	g/cm <sup>3</sup>	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-Medium Level 02

## 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.

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**Revision Date: January 2026**