



PIR-002TS Polyimide Resin powder

PIR-002TS is unfilled thermal setting polyimide resin powder, widely used as matrix resin for shapes, components and parts with excellent physical properties.

Characters:

- * Good compatibility with fillers: graphite, glass fiber, PTFE, MoS₂, etc.
- * Low wear and friction
- * Excellent heat resistance.
- * Excellent dielectric performance.
- * Excellent chemical resistance.
- * Higher mechanical strength, better tear resistance.
- * Machinable with standard tools

Typical Properties(The follows are just examples not read as guaranteed values)

Items	Test methods	Units	Typical Value
1. Visual	Light yellow for unfilled one		
2. Tensile strength 23°C/250°C	ASTM/D1708	MPa	85/50
3. Elongation	ASTM/D1708	%	5.5
4. Flexural strength 23°C/250°C	ASTM/D790	Mpa	100/55
5. Flexural Modulus 23°C/250°C	ASTM/D790	Mpa	34150/1875
6. Izod notched impact 23°C	ASTM/D256	kg-cm/cm ²	70
7. Izod unnotched impact 23°C	ASTM/D256	kg-cm/cm ²	12
8. Compressive strength 23°C 10% strain	ASTM/D695	MPa	110
9. Vol. Resistivity	ASTM/D257	Ω.m	> 1 x 10 ¹⁴
10. Surface Resistivity,	ASTM/D257	Ω	> 1 x 10 ¹⁵
11. Dielectric constant	ASTM/D150		2.5--3.0
12. Coefficient of linear expansion	ASTM/D696	10 ⁻⁵ cm/cm/°C	4.5
13. Friction coefficient	GB3960		0.25
14. HDT	GB/T1634	°C	> 360
15. Thermal loss	TGA	°C	>550(5%loss)
16. Specific Gravity	ASTM/D1505	g/cm ³	1.4

Packing: carton after sealed by plastic film bag Shelf life: 2 Years

Note: 1. Since polyimide resins are hygroscopic, please predried at 250 °F (120 °C) for a couple of hours before any use

2. All of above information is based on our best knowledge, not read as guarantees. Right reserved for corrections.

3. Please contact us if customization requirements.

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