

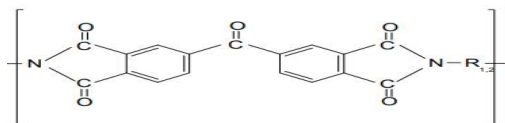


PIR-004 BTDA-based Polyimide Resin powder

PIR-004 is unfilled BTDA-based polyimide resin powder, widely used as matrix resin for shapes, components and parts with excellent physical properties, and also for coating, membrane, etc.

(BTDA is abbr.: 3,3',4,4'-Benzophenonetetracarboxylic dianhydride)

Base Structure:



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/solubility	Light yellow for unfilled one, soluble in DMF, DMAC, etc.		
2. Tensile strength 23°C	ASTM/D1708	MPa	110
3. Elongation	ASTM/D1708	%	6.5
4. Flexural strength 23°C	ASTM/D790	Mpa	155
5. Flexural Modulus 23°C	ASTM/D790	Mpa	3600
6. Unnotched impact strength 23°C	ISO179	KJ/m ²	70
7. Compressive strength 23°C 10% strain	ASTM/D695	MPa	135
8. Vol. Resistivity	ASTM/D257	Ω.m	> 1 x 10 ¹⁴
9. Surface Resistivity,	ASTM/D257	Ω	> 1 x 10 ¹⁵
10. Dielectric constant	ASTM/D150		2.5--3.0
11. Coefficient of linear expansion	ASTM/D696	10 ⁻⁵ cm/cm/°C	4.5
12. Friction coefficient	GB3960		0.25-0.3
13. Glass transition temp. Tg	DSC204/1/F	°C	320
14. Specific Gravity	ASTM/D1505		1.34

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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