



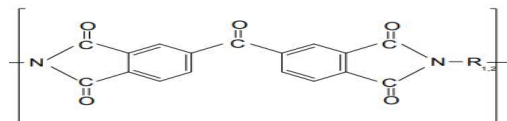
PIR-004 Polyimide Resin powder

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

Note:1.Different polyimide types also available with different structures

2.BTDA 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℃	ASTM/D1708	MPa	110
3. Elongation	ASTM/D1708	%	6.5
4.Flextural strength 23℃	ASTM/D790	Mpa	155
5.Flextural Modulus 23℃	ASTM/D790	Mpa	3600
6.Unnotched impact strength 23℃	ISO179	KJ/m ²	70
7.Compressive strength 23℃ 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/℃	4.5
12.Friction coefficient	GB3960		0.25-0.3
13.Glass transition temp. Tg	DSC204/1/F	℃	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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