



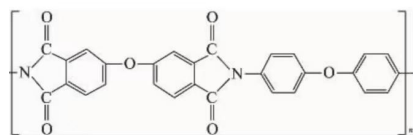
PIR-002 Polyimide Resin powder

PIR-002 polyimide resin powder is unfilled thermal plastic polyimide with ODA structure, widely used as matrix resin for shapes, components and parts with excellent physical properties, especially on *flexibility due to its ether bond*.

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

2. ODA/ODA abbr. of 4,4'-Oxydipthalic anhydride/ 4,4'-Oxydianiline

Base structure:



Characters:

- * Good compatibility with fillers: graphite, glass fiber, PTFE, MoS₂, etc.
- * Excellent flexibility and heat resistance
- * Low wear and friction
- * 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℃	ASTM/D1708	MPa	90
3. Elongation	ASTM/D1708	%	6.5
4. Flexural strength 23℃	ASTM/D790	Mpa	105
5. Flexural Modulus 23℃	ASTM/D790	Mpa	2900
6. Izod unnotched impact 23℃	IEC179	KJ/m ²	175
7. Compressive strength 23℃ 10% strain	ASTM/D695	MPa	110
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		0.3
13. Thermal loss (300℃)	TGA	%	Less 0.5%
14. Glass transition temp. Tg	DSC204/1/F	℃	260
15. Specific Gravity	ASTM/D1505		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.

Contact information:

Company: WJF Chemicals Co. Ltd. QuZhou

Address: 601 ZhongXing Plaza No. 123 HeHua ZhongLu QuZhou ZheJiang Province China

Email: info@wjfchemicals.com Tel./Fax: +865703865831 Mob.: +8613059765326