

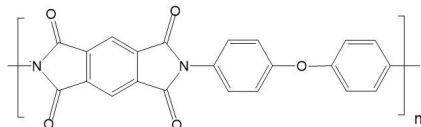


## PIR-005 Polyimide Resin powder

**PIR-005** is unfilled PMDA/ODA-based polyimide resin powder, widely used as matrix resin for shapes, components and parts with excellent physical properties, that can work under harsh conditions due to its strong structure.

(Note: PMDA/ODA abbr. of pyromellitic anhydride/4,4'-Oxydianiline)

Base Structure:



Characters:

\* Good compatibility with fillers: graphite, glass fiber, PTFE, MoS<sub>2</sub>, 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 amber for unfilled one		
2. Tensile strength 23°C	ASTM/D1708	MPa	80
3. Elongation	ASTM/D1708	%	6.5
4. Flexural strength 23°C	ASTM/D790	Mpa	90
5. Flexural Modulus 23°C	ASTM/D790	Mpa	2800
6. Unnotched impact strength 23°C	ISO179	KJ/m <sup>2</sup>	-
7. Compressive strength 23°C 10% strain	ASTM/D695	MPa	105
8. Vol. Resistivity	ASTM/D257	Ω.m	> 1 x 10 <sup>14</sup>
9. Surface Resistivity,	ASTM/D257	Ω	> 1 x 10 <sup>15</sup>
10. Dielectric constant	ASTM/D150		2.5--3.0
11. Coefficient of linear expansion	ASTM/D696	10 <sup>-5</sup> cm/cm/°C	4.5
12. Friction coefficient	GB3960		0.25-0.3
13. Glass transition temp. Tg	DSC204/1/F	°C	Over 400
14. Specific Gravity	ASTM/D1505		1.42

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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