

High rigidity and high modulus polyimide resins

Product Introduction :

- A high rigidity and high modulus polyimide resin independently developed and produced by Mount Huangshan Emerald Wood. Compared with conventional polyimide products, it has higher modulus, higher hardness and better dimensional stability under high temperature environment.

Application :

- Used for manufacturing precision components such as high and low temperature resistant seals, wear-resistant parts, transmission parts, insulation parts, chip testing fixtures, etc;
- Long term use temperature range: -269 °C~370 °C

Detected Data :



Test Feature	Test Method	Unit	Test Conditions	Results
Rockwell Hardness	GB/T 3398.2-2008	HRE	23°C	92
Impact Strength	GB/T1043.1-2008	kJ/m ²	23°C	98
Flexural Strength	GB/T9341-2008	MPa	23°C	237
			300°C	78
Flexural Modulus	GB/T9341-2008	MPa	23°C	5119
			300°C	2417
Tensile Strength	GB/T 1040.1-2018	MPa	23°C	135
			300°C	53
Elongation at break	GB/T 1040.1-2018	%	23°C	7.2
			300°C	37.1
Compressive Strength	GB/T1041-2008	MPa	23°C	22
			300°C	118
Surface Resistance	EC61340	Ω	23°C	10 ¹⁴ -10 ¹⁵
Density	GB/T 1033.1-2008	g/cm ³	23°C	1.43
Friction coefficient	GB/T 3960-2016	/	2h	0.15
Mass of wear	GB/T 3960-2016	mg	2h	4
Absorption	GB/T 1034-2008	%	24h	0.11
			48h	0.18