

P84® NT1 15G

Thermoplastic Polyimide

Evonik Industries AG

Message:

Advantages of Polyimide P84®NT

To overcome the above-mentioned limitations, Evonik Fibres GmbH is now offering Polyimide P84®NT in powder or granulate form, which is processable by employing common sinter technologies such as hot compression moulding or direct forming. The high mechanical stability and the impact resistance of P84®NT parts ensure good machinability with standard tools.

Parts made of Polyimide P84®NT are excellent performers in thermally and mechanically stressed applications. This novel material features a high glass transition temperature of 337-364°C and a rigid structure (3705 MPa flexural modulus, 188 MPa strength in a three-point-bending experiment), combined with a high elongation at break of over 11 percent.

General Information			
Filler / Reinforcement	Graphite Fiber, 15% Filler by Weight		
Features	Good Creep Resistance		
	Good Wear Resistance		
	High Heat Resistance		
	High Impact Resistance		
	High Rigidity		
	High Strength		
	Low Friction		
	Machinable		
Uses	Aerospace Applications		
	Automotive Applications		
	Bearings		
	Bushings		
	Gears		
	Industrial Applications		
	Seals		
	Valves/Valve Parts		
Forms	Granules		
	Powder		
Processing Method	Compression Molding		
	Sintering		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4000	MPa	ISO 527-2
Tensile Stress	103	MPa	ISO 527-2
Tensile Strain (Break)	6.0	%	ISO 527-2

Compressive Modulus	1880	MPa	ISO 604
Compressive Stress	269	MPa	ISO 604
Compressive Strain at Break	41	%	ISO 604
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	345	°C	ISO 75-2/B
1.8 MPa, Unannealed	335	°C	ISO 75-2/Af

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