



Dexnyl[©] PAI SF GF30 Torlon 5030

Dexnyl[®] PAI SF GF30 Torlon 5030 is a high modulus polyamide-imide containing 30% glass fibers well suited for electrical insulators and thermal isolators. It offers a 50% lower CLTE than non-reinforced Torlon 4203 but without the conductivity of carbon fibers. It is ideal for:

- High temperature thermal/electrical insulators
- Test sockets for IC's
- Fasteners
- Activation balls and valve seats

Material Notes: Dexnyl[©] PAI SF GF30 Torlon 5030 contains 30% glass fibers

Metric	English	Methods
1.60 g/cc	.058 lb/in ³	ASTM D792
0.3%	0.3%	Immersion, 24hr; ASTM D570(2)
1.5%	1.5%	Immersion; ASTM D570(2)
	M125	ASTM D785
	E90	ASTM D785
	90	ASTM D2240
159 MPa	23,000 psi	ASTM D638
4%	4%	ASTM D638
6900 MPa	1,000,000 psi	ASTM D638
6760 MPa	980,000 psi	ASTM D790
207 MPa	30,000 psi	ASTM D790
276 MPa	40,000 psi	10% Def.; ASTM D695
4828 MPa	700,000 psi	ASTM D695
52 J/M	1.0	ASTM D256 Type A
275 °C	527 °F	ASTM D3418
278°C	532°F	ASTM TMA
1.6 x 10 ⁻⁵ C ⁻¹	0.9 x 10 ⁻⁵ C ⁻¹	E831 TMA
	1.60 g/cc 0.3% 1.5% 1.5% 6900 MPa 6760 MPa 207 MPa 207 MPa 276 MPa 4828 MPa 52 J/M 275 °C 278°C	1.60 g/cc .058 lb/in³ 0.3% 0.3% 1.5% 1.5% 1.5% 1.5% M125 E90 90 159 MPa 23,000 psi 4% 4% 6900 MPa 1,000,000 psi 6760 MPa 980,000 psi 207 MPa 30,000 psi 207 MPa 30,000 psi 276 MPa 40,000 psi 52 J/M 1.0 275 °C 275 °C 527°F 278°C 532°F

The mechanical properties of extruded shapes may differ from the values published by resin producers. Published resin data is always generated off injection molded test specimens run under near perfect conditions. Dexnyl© PAI SF GF30 Torlon 5030 extruded shape values are generated using specimens machined from actual shapes and may reflect surface imperfections from machining, enhanced crystallinity resulting from processing and fiber alignment inherent in all reinforced plastic shapes, regardless of process.



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Bahrenfelder Straße 242 22765 Hamburg +49 40 4011 30000 info@bieglo.com www.bieglo.com