Dexnyl© PBI SF_37

Technical Datasheet

Features:

- Ultra-high performance plastic compliant with NASA & AFML
- Thermal decomposition temperature: >600°C (inert)
- Glass transition temperature: ~425°C
- Heat deflection temperature: ~410°C
- Excellent mechanical properties
- Good tribological properties

Property	Standard	Unit	Dexnyl© PBI SF	Dexnyl© PBI SF EC	Dexnyl© PBI+CF SF
Tensile strength	ISO 527	MPa	160	100	160
Elongation	ISO 527	%	3.0	1.5	1.5
Flexural strength	ISO 178	MPa	220	150	245
Flexural modulus	ISO 178	GPa	6.5	7.0	9.5
Charpy impact strength, notched	ISO 179-1	kJ m^{-2}	4.0		3.5
Surface resistance	ANSI/ESD STM11.13	Ω	$>10^{13}$	$\sim10^{4}$	$<10^{3}$
Water absorption (23°C, 24 h)	ISO 62	wt%	0.40	0.40	0.40

- PBI semi-finished material is also available as special grades for semiconductor manufacturing (PBI SF), electrical conductivity (PBI EC), reinforced with carbon fibres (PBI CF) and as PBI-PEEK alloy.

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