

TECAFIL PEI 1000 black - Filament

Chemical Designation

Main features

PEI (Polyetherimide)

→ Standard spool body: OD Ø 200mm, width 55mm, Take up Ø52mm

Colour black

Density 1.27 g/cm³

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength at yield	50 mm/min (yield)	105	MPa	DIN EN ISO 527-1	
Tensile strength at yield	5mm/min (break)	85	MPa	DIN EN ISO 527-1	·· -
Elongation at yield	50 mm/min (break)	60	%	DIN EN ISO 527-1	·
Elongation at yield	50 mm/min (yield)	6	%	DIN EN ISO 527-1	
Notched impact strength (Izod)	notched 80*10*4 +23°C	6	kJ/m ²	DIN EN ISO 179-1eA	
Notched impact strength (Izod)	notched 80*10*4 -30°C	6	kJ/m ²	-	
Thermal properties	parameter	value	unit	norm	comment
Service temperature	long term	170	°C	-	
Service temperature	short term	200	°C	-	
Processing parameter	parameter	value	unit	norm	comment
Material temperature		370 - 410	°C	-	
Predrying	parameter	value	unit	norm	comment
Permissible residual moisture content		0.02	%	-	
Drying temperature		150	°C	-	
Drying time		4 - 6	h	-	

To achieve optimum mechanical properties, it is recommended to pre-dry the material with the above mentioned parameters.

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Date: 2018/11/07

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Version: AA

[→] The filament should preferably be stored in dry, normal temperature rooms and protected from direct sunlight.