

# TECAFIL PEEK VX CF30 black - Filament

## Chemical Designation

PEEK (Polyetheretherketone)

## Colour

black

## Density

1.38 g/cm<sup>3</sup>

## Fillers

carbon fibres

## Main features

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

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Modulus of elasticity (tensile test)	1 mm/min	17500	MPa	DIN EN ISO 527-1	
Tensile strength	50 mm/min	190	MPa	DIN EN ISO 527-1	
Elongation at break	50 mm/min	2	%	DIN EN ISO 527-1	
Impact strength (Charpy)		45	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		143	°C	DIN EN ISO 11357	
Melting temperature		343	°C	DIN EN ISO 11357	
Service temperature	short term	300	°C	-	
Service temperature	long term	260	°C	-	
<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Bulk density		0,67	g/cm <sup>3</sup>	EN ISO 60	
<i>Processing parameter</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Material temperature		390 - 400	°C	-	
<i>Predrying</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Permissible residual moisture content		< 0,02	%	-	
Drying temperature		140 - 160	°C	-	
Drying time		3 - 4	h	-	

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

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

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