



PEEK GF30 3000x620x20 mm beige

Article No.	P1500970
Category	PEEK

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.51	g/cm ³	ISO 1183

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.3	%	ISO 62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	105	MPa	ISO 527
Modulus of elasticity (tensile)	6380	MPa	ISO 527
Breakdown Voltage	180	MPa	ISO 527
Break Elongation	2.7	%	ISO 527

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	164	MPa	ISO 178

Impact Resistance

Property	Value	Unit	Test standard
Impact Resistance (Charpy)	32	kJ/m ²	ISO 179

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	90	° Shore D	ISO 868

Temperature Limits

Property	Value	Unit	Test standard
Melting point	341	°C	DIN EN ISO 11357
Maximal operating temperature (short-term)	300	°C	
Maximum Operating Temperature	260	°C	
Heat deflection temperature (HDT/A)	328	°C	ISO 75
Vicat softening temperature (VST/B/50)	50	°C	ISO 306

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.35	W/(m·K)	ISO 22007-4

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	0.38	10 ⁻⁴ /K	ISO 11359

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	20	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹³	Ω	IEC 60093
Dielectric Constant (1 MHz)	1	-	IEC 60250
Dielectric loss factor (1 MHz)	0.0	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹³	Ω	IEC 60093

Fire Classification

Property	Value	Unit	Test standard
Flammability Classification (UL 94)	0		UL 94

