



## PEEK GF30 3000x620x10 mm beige

Article No.	P1500966
Category	PEEK

### Technical Properties

#### Density & Weight

Property	Value	Unit	Test standard
Density	1.51	g/cm <sup>3</sup>	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 <sup>2</sup>	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 <sup>-4</sup> /K	ISO 11359

## Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	20	kV/mm	IEC 60243-1
Volume Resistivity	10 <sup>13</sup>	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 <sup>13</sup>	Ω	IEC 60093

## Fire Classification

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

