

AKROTEK® PEEK GF 50 9 natural (5183)

Polyetheretherketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PEEK GF 50 9 natural (5183) is a 50% glass fibre reinforced process improved polyetheretherketone with very high stiffness and strength Applications are mainly elements in the automotive-, aeronautical-, industrial- and medical engineering that require high strength in a temperature environment above 150°C

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	High Stiffness		
	High Strength		
Uses	Aerospace Applications		
	Automotive Applications		
	Industrial Applications		
	Medical/Healthcare Applications		
Appearance	Natural Color		
Resin ID (ISO 1043)	PEEK GF50		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.73	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	19000	MPa	ISO 527-2/1
Tensile Stress (Break)	210	MPa	ISO 527-2/5
Tensile Strain (Break)	1.8	%	ISO 527-2/5
Flexural Modulus ¹	19000	MPa	ISO 178
Flexural Stress ²	320	MPa	ISO 178
Flexural Strain at Break ³	2.0	%	ISO 178
Reinforcement Content	50	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	> 280	°C	ISO 75-2/A
8.0 MPa, Unannealed	260	°C	ISO 75-2/C
Melting Temperature ⁴	342	°C	DIN EN 11357-1
Flammability	Nominal Value	Test Method	
Flame Rating (1.60 mm)	V-0	UL 94	
NOTE			

1.	2.0 mm/min
2.	2.0 mm/min
3.	2 mm/min
4.	10 K/min, DSC

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