

AKROTEK® PAEK CF 30 black (5216)

Polyetherketoneketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PAEK CF 30 black (5216) is a 30% carbon fibre reinforced polyetherketoneketone with high flexural strength and good sliding properties Applications are mainly elements in the automotive-, aeronautical-, industrial- and medical engineering that require high strength and high stiffness in a temperature environment above 150°C

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	High Stiffness		
	High Strength		
Uses	Aerospace Applications		
	Automotive Applications		
	Industrial Applications		
	Medical/Healthcare Applications		
Appearance	Black		
Resin ID (ISO 1043)	PEKK CF30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40	g/cm ³	ISO 1183
Spiral Flow	72.0	cm	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	25000	MPa	ISO 527-2/1
Tensile Stress (Break)	250	MPa	ISO 527-2/5
Tensile Strain (Break)	1.4	%	ISO 527-2/5
Flexural Modulus ¹	24000	MPa	ISO 178
Flexural Stress ²	365	MPa	ISO 178
Flexural Strain at Break ³	1.8	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m ²	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	195	°C	ISO 75-2/C
Melting Temperature ⁴	340	°C	DIN EN 11357-1
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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

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