

AKROTEK® PEEK CF 10 TM black (5050)

Polyetheretherketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PEEK CF 10 TM black (5050) is a 10% carbon fibre reinforced polyetheretherketone with high flexural strength and good sliding properties as well as good tribological 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,10% Filler by Weight		
Features	High Stiffness		
	High Strength		
Uses	Aerospace Applications		
	Automotive Applications		
	Industrial Applications		
	Medical/Healthcare Applications		
Appearance	Black		
Resin ID (ISO 1043)	PEEK CF10		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.44	g/cm³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13500	MPa	ISO 527-2/1
Tensile Stress (Break)	155	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ¹	13000	MPa	ISO 178
Flexural Stress ²	235	MPa	ISO 178
Flexural Strain at Break ³	2.4	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (8.0 MPa, Unannealed)	175	°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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