

AKROTEK® PAEK CF 30 TM black (5217)

Polyetherketoneketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PAEK CF 30 TM black (5217) is a 30% carbon fibre reinforced polyetherketoneketone 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,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)	1.41	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24600	MPa	ISO 527-2/1
Tensile Stress (Break)	230	MPa	ISO 527-2/5
Tensile Strain (Break)	1.3	%	ISO 527-2/5
Flexural Modulus ¹	23500	MPa	ISO 178
Flexural Stress ²	335	MPa	ISO 178
Flexural Strain at Break ³	1.7	%	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)	38	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	205	°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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

