

AKROTEK® PK-HM CF 12 black (4927)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-HM CF 12 black (4927) is a 12% carbon fibre reinforced, high viscosity polyketone with good sliding properties
Applications are mainly components in mechanical engineering and the automotive industry.

General Information			
Filler / Reinforcement	Carbon Fiber, 12% Filler by Weight		
Features	High Viscosity		
	Slip		
Uses	Automotive Applications		
	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PK CF12		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.35	g/cm ³	ISO 1183
Spiral Flow	49.0	cm	Internal Method
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7300	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ¹	7900	MPa	ISO 178
Flexural Stress ²	154	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	10	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m ²	
23°C	40	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	217	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A

Melting Temperature ³	220	°C	DIN EN 11357-1
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	12	%	ISO 1172
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		

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