

AKROTEK® PK-VM ICF 30 black (5403)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-VM ICF 30 black (5403) is a 30% carbon fibre reinforced polyketon with good sliding properties. Applications are mechanically high stressed parts in all industries

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	High Strength		
Appearance	Black		
Resin ID (ISO 1043)	PK CF30		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.32	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18500	MPa	ISO 527-2/1
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Modulus ¹	21000	MPa	ISO 178
Flexural Stress ²	185	MPa	ISO 178
Flexural Strain at Break ³	1.2	%	ISO 178
Reinforcement Content	30	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	
23°C	7.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	25	kJ/m ²	
23°C	35	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ⁴	220	°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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