

AKROTEK® PEEK GF 60 9 natural (5184)

Polyetheretherketone

AKRO-PLASTIC GmbH

Message:

AKROTEK® PEEK GF 60 9 natural (5184) is a 60% glass fibre reinforced process improved polyetheretherketone with very high stiffness and strength Applications are mainly elements in the automotive-, aeronautical-, industrial- and medical engineering that require high strength in a temperature environment above 150°C

General Information				
Filler / Reinforcement		Glass Fiber,60% Filler by Weight		
Features		High Stiffness		
		High Strength		
Uses		Aerospace Applications		
		Automotive Applications		
		Industrial Applications		
		Medical/Healthcare Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PEEK GF60		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.85	--	g/cm ³	ISO 1183
Spiral Flow	48.0	--	cm	Internal Method
Humidity Absorption - 62% RH (70°C)	0.12	--	%	ISO 1110
Flexural Strain at Break ¹	1.7	--	%	ISO 178
Reinforcement Content	60	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	23000	21700	MPa	ISO 527-2/1
Tensile Stress (Break)	210	180	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	1.1	%	ISO 527-2/5
Flexural Modulus ²	23600	--	MPa	ISO 178
Flexural Stress ³	325	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	35	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	> 280	--	°C	ISO 75-2/A

8.0 MPa, Unannealed	275	--	°C	ISO 75-2/C
Melting Temperature ⁴	342	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	V-0	--		UL 94

NOTE

1. 2 mm/min
2. 2.0 mm/min
3. 2.0 mm/min
4. 10 K/min, DSC

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