

AKROTEK® PK-HM GF 50 natural (4741)

Polyketone, Aliphatic
AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-HM GF 50 natural (4741) is a 50% glass fibre reinforced Polyketon with very high stiffness and strength and light inherent color. Applications are mainly components in mechanical engineering and the automotive industry.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Stiffness		
		High Strength		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PK GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.65	--	g/cm ³	ISO 1183
Spiral Flow	11.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.70	--	%	
Humidity Absorption - 62% RH (70°C)	0.40 to 0.50	--	%	ISO 1110
Reinforcement Content	50	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12500	11500	MPa	ISO 527-2/1
Tensile Stress (Break)	140	130	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	2.0	%	ISO 527-2/5
Flexural Modulus ¹	13900	--	MPa	ISO 178
Flexural Stress ²	225	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	50	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	220	--	°C	ISO 75-2/A
Melting Temperature ³	220	--	°C	DIN EN 11357-1

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	>1 mm			

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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



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