

AKROTEK® PK-HM GF 30 natural (4709)

Polyketone, Aliphatic
AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-HM GF 30 natural (4709) is a 30% glass fibre reinforced Polyketon with 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,30% Filler by Weight		
Features		High Stiffness		
		High Strength		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PK GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.48	--	g/cm ³	ISO 1183
Spiral Flow	35.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.3	--	%	
Flow	0.70	--	%	
Humidity Absorption - 62% RH (70°C)	0.60 to 0.70	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7500	7100	MPa	ISO 527-2/1
Tensile Stress (Break)	130	120	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	3.0	%	ISO 527-2/5
Flexural Modulus ¹	8300	--	MPa	ISO 178
Flexural Stress ²	180	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	15	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	60	50	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°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	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			

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



WECHAT