

AKROTEK® PK-HM GF 15 natural (4707)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-HM GF 15 natural (4707) is a 15% glass fibre reinforced Polyketon with average stiffness and strength and light inherent color. Applications are mainly components in mechanical engineering and the automotive industry.

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Stiffness		
		Medium Strength		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PK GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Spiral Flow	50.0	--	cm	Internal Method
Molding Shrinkage			ISO 294-4	
Across Flow	1.1	--	%	
Flow	1.2	--	%	
Humidity Absorption - 62% RH (70°C)	0.70 to 0.80	--	%	ISO 1110
Reinforcement Content	15	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4400	4100	MPa	ISO 527-2/1
Tensile Stress (Break)	90.0	80.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	4.5	%	ISO 527-2/5
Flexural Modulus ¹	4500	--	MPa	ISO 178
Flexural Stress ²	130	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA	
-30°C	7.0	--	kJ/m ²	
23°C	15	15	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU	
-30°C	55	--	kJ/m ²	
23°C	55	55	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	210	--	°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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