

AKROTEK® PK-HM natural (4773)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-HM natural (4773) is an unreinforced Polyketon with average flowability.
Applications are mainly components in mechanical engineering and the automotive industry.

General Information				
Features		Good Flow		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PK		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.24	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	6.00	--	cm ³ /10min	ISO 1133
Spiral Flow	58.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.1	--	%	
Flow	1.8	--	%	
Water Absorption (Saturation, 23°C)	2.2	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	0.80 to 0.90	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1400	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	60.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 300	> 300	%	ISO 527-2/50
Flexural Modulus ¹	1600	1200	MPa	ISO 178
Flexural Stress ²	60.0	60.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	--	kJ/m ²	
23°C	15	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	--	°C	ISO 75-2/A
Melting Temperature ³	220	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
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)	675	--	°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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