

AKROTEK® PK-VM TM natural (4954)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-VM TM natural (4954) is an unreinforced, tribologically modified Polyketon with high flowability
Applications are mainly components in technical, tribological engineering and the automotive industry.

General Information				
Features		High Flow		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PK		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Spiral Flow	120	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.6	--	%	
Flow	1.3	--	%	
Humidity Absorption - 62% RH (70°C)	0.60 to 0.70	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	1500	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	50.0	MPa	ISO 527-2/50
Tensile Strain (Break)	40	40	%	ISO 527-2/50
Flexural Modulus ¹	1500	--	MPa	ISO 178
Flexural Stress ²	55.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	--	kJ/m ²	
23°C	7.0	7.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	--	kJ/m ²	
23°C	100	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	185	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°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
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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