AKROTEK® PK-VM GF 60 natural (4923)

Polyketone, Aliphatic

AKRO-PLASTIC GmbH

Message:

AKROTEK® PK-VM GF 60 natural (4923) is a 60% 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,60% Filler by Weight			
Features	High Stiffness High Strength			
Uses	Automotive Applications Engineered Applications			
Appearance	Natural Color			
Resin ID (ISO 1043)	PK GF60			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.80	--	g/cm³	ISO 1183
Spiral Flow	29.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	0.30 to 0.40	--	%	ISO 1110
Reinforcement Content	60	--	%	ISO 1172
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17500	17300	MPa	ISO 527-2/1
Tensile Stress (Break)	180	175	MPa	ISO 527-2/5
Tensile Strain (Break)	1.5	1.5	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	20	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	60	kJ/m²	ISO 179/1eU
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 [1]	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
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
NOTE				
1.	10 K/min, DSC			

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