

Akulon® Ultraflow K-FKG6

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® Ultraflow K-FKG6 is a polyamide 6 (nylon 6) material, which contains a 30% glass fiber reinforced material. This product is available in North America or Asia Pacific.

Akulon® The main features of Ultraflow K-FKG6 are:

- flame retardant/rated flame
- high liquidity
- heat stabilizer

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		High liquidity		
		Thermal Stability		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.1	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	6.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	5700	MPa	ISO 527-2
Tensile Stress (Break)	170	105	MPa	ISO 527-2
Tensile Strain (Break)	3.5	7.0	%	ISO 527-2
Flexural Modulus	8600	--	MPa	ISO 178
Flexural Stress	235	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	10	kJ/m ²	ISO 179/1eA
23°C	14	22	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	65	65	kJ/m ²	ISO 179/1eU
23°C	85	90	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5	--	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned	Test Method	
Flammability Classification (1.6 mm)	HB	--	IEC 60695-11-10, -20	
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	4.0 - 8.0		hr	
Rear Temperature	230 - 250		°C	
Middle Temperature	230 - 260		°C	
Front Temperature	230 - 260		°C	
Nozzle Temperature	250 - 280		°C	
Processing (Melt) Temp	245 - 270		°C	
Mold Temperature	40 - 80		°C	
Injection Rate	Moderate-Fast			
Back Pressure	3.00 - 10.0		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

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

