

Akulon® Ultraflow K-FHG6/B

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® Ultraflow K-FHG6/B is a polyamide 6 (nylon 6) material, which contains a 30% glass fiber reinforced material. This product is available in the Asia-Pacific region.

Akulon® The main features of Ultraflow K-FHG6/B are:

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

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Workability, good		
		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	9350	5700	MPa	ISO 527-2
Tensile Stress (Break)	160	105	MPa	ISO 527-2
Tensile Strain (Break)	3.0	7.0	%	ISO 527-2
Flexural Modulus	8500	--	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	200	--	°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
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+13	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+14	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	3.50	14.0		IEC 60250
1 MHz	3.30	5.00		IEC 60250
Dissipation Factor				IEC 60250
100 Hz	5.0E-3	0.30		IEC 60250
1 MHz	0.015	0.12		IEC 60250
Comparative Tracking Index	--	500	V	IEC 60112
Flammability	Dry	Conditioned	Unit	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			

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