

Akulon® Ultraflow K-FKGS6 /B

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® Ultraflow K-FKGS6 /B is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific, Europe, or North America. Important attributes of Akulon® Ultraflow K-FKGS6 /B are:
Flame Rated
Flame Retardant
Heat Stabilizer
High Flow

General Information				
UL YellowCard		E43392-235107	E47960-240106	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Flame Retardant		
		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
		High Flow		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.59	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.77	--	%	
Flow	0.21	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	7000	MPa	ISO 527-2
Tensile Stress (Break)	150	100	MPa	ISO 527-2
Tensile Strain (Break)	2.5	5.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m²	
23°C	13	15	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m²	

23°C	60	60	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Relative Permittivity				IEC 60250
100 Hz	3.50	10.0		
1 MHz	3.40	4.00		
Dissipation Factor				IEC 60250
100 Hz	6.0E-3	0.30		
1 MHz	0.012	0.070		
Comparative Tracking Index	325	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	V-0	--		
1.50 mm	V-0	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	230 to 250		°C	
Middle Temperature	230 to 260		°C	
Front Temperature	230 to 260		°C	
Nozzle Temperature	250 to 280		°C	
Processing (Melt) Temp	245 to 270		°C	
Mold Temperature	40.0 to 80.0		°C	
Injection Rate	Moderate-Fast			
Back Pressure	3.00 to 10.0		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				
1.	10°C/min			

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