

Akulon® Ultraflow K-FKGV4 /A

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® Ultraflow K-FKGV4 /A is a Polyamide 6 (Nylon 6) material filled with 20% glass fiber. It is available in Asia Pacific or Europe.
Important attributes of Akulon® Ultraflow K-FKGV4 /A are:

- Flame Rated
- Flame Retardant
- Halogen Free
- Heat Stabilizer
- High Flow

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Additive	Flame Retardant
	Heat Stabilizer
Features	Flame Retardant
	Halogen Free
	Heat Stabilized
	High Flow
	Low (to None) Phosphorus Content

Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.60	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5500	--	MPa	ISO 527-2
Tensile Stress (Break)	70.0	--	MPa	ISO 527-2
Tensile Strain (Break)	2.5	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	2.0	--	kJ/m ²	
23°C	2.0	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	30	--	kJ/m ²	
23°C	30	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	185	--	°C	ISO 75-2/A
Melting Temperature	220	--	°C	ISO 11357-3
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	4.30	10.0		
1 MHz	3.80	3.90		
Dissipation Factor				IEC 60250
100 Hz	0.013	0.30		
1 MHz	0.021	0.10		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	V-2	--		
1.50 mm	V-2	--		
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	225 to 235		°C	
Middle Temperature	230 to 240		°C	
Front Temperature	235 to 250		°C	
Nozzle Temperature	235 to 255		°C	
Processing (Melt) Temp	235 to 260		°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			

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Recommended distributors for this material

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