

Akulon® Ultraflow K-FLG6/E

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® Ultraflow K-FLG6/E is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific.
Important attributes of Akulon® Ultraflow K-FLG6/E are:
Flame Rated
High Flow
UV Stabilized

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	UV Stabilizer		
Features	High Flow		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	6.0	%	
Equilibrium, 23°C, 50% RH	1.8	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flammability Classification (1.60 mm)	HB		IEC 60695-11-10, -20
Injection	Nominal Value	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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Recommended distributors for this material

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