

Akulon® XG-FKGS6

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® XG-FKGS6 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific or Europe.

Important attributes of Akulon® XG-FKGS6 are:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information				
UL YellowCard	E47960-562306			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Flame Retardant			
Features	Flame Retardant			
	Halogen Free			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	7100	MPa	ISO 527-2
Tensile Stress (Break)	135	85.0	MPa	ISO 527-2
Tensile Strain (Break)	2.0	3.7	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.800 mm	V-0	--		

1.60 mm	V-0	--	
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	--	°C
1.60 mm	960	--	°C
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	775	--	°C
1.60 mm	775	--	°C
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		

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Recommended distributors for this material

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