

Akulon® SG-KGS6

Polyamide 66
DSM Engineering Plastics

Message:

Akulon® SG-KGS6 is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Asia Pacific.
Important attributes of Akulon® SG-KGS6 are:
Flame Rated
Flame Retardant
Halogen Free

General Information	
UL YellowCard	E47960-100764025
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant
	Halogen Free
	Low (to None) Phosphorus Content

Physical	Dry	Conditioned	Unit	Test Method
Density	1.44	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.3	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11000	--	MPa	ISO 527-2
Tensile Stress (Break)	150	--	MPa	ISO 527-2
Tensile Strain (Break)	2.8	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	63	--	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	245	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength	36	32	kV/mm	IEC 60243-1

Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.400 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	260 to 280		°C	
Middle Temperature	270 to 290		°C	
Front Temperature	265 to 275		°C	
Nozzle Temperature	260 to 265		°C	
Processing (Melt) Temp	265 to 285		°C	
Mold Temperature	50.0 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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