

Akulon® S223-HG0

Polyamide 66
DSM Engineering Plastics

Message:

Akulon® S223-HG0 is a polyamide 66 (nylon 66) material, which contains a 50% glass fiber reinforced material. This product is available in North America or Asia Pacific.

Akulon® The main features of the S223-HG0 are:

flame retardant/rated flame

heat stabilizer

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	4.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16800	6500	MPa	ISO 527-2
Tensile Stress (Break)	245	125	MPa	ISO 527-2
Tensile Strain (Break)	2.6	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	10	kJ/m ²	ISO 179/1eA
23°C	16	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	97	68	kJ/m ²	ISO 179/1eU
23°C	90	88	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	260	--	°C	ISO 75-2/B
1.8 MPa, not annealed	253	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	ISO 11359-2

Lateral	6.0E-5	--	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned	Test Method	
Flammability Classification (1.6 mm)	HB	--	IEC 60695-11-10, -20	
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	4.0 - 8.0		hr	
Rear Temperature	275 - 295		°C	
Middle Temperature	275 - 295		°C	
Front Temperature	275 - 290		°C	
Nozzle Temperature	280 - 290		°C	
Processing (Melt) Temp	290 - 305		°C	
Mold Temperature	50 - 80		°C	
Injection Rate	Moderate-Fast			
Back Pressure	3.00 - 10.0		MPa	
Screw Compression Ratio	2.5:1.0			
NOTE				

1. 10°C/min

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