

Akulon® S223-G4U

Polyamide 66
DSM Engineering Plastics

Message:

Akulon® S223-G4U is a Polyamide 66 (Nylon 66) material filled with 23% glass fiber. It is available in North America. Primary attribute of Akulon® S223-G4U: Flame Rated.

General Information				
Filler / Reinforcement		Glass Fiber,23% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.70	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7400	5600	MPa	ISO 527-2
Tensile Stress (Break)	130	90.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	5.5	%	ISO 527-2
Flexural Modulus	6800	--	MPa	ISO 178
Flexural Stress	215	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	4.0	kJ/m ²	
23°C	6.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	40	40	kJ/m ²	
23°C	40	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	2.0E-5	--	cm/cm/°C	

Transverse	8.0E-5	--	cm/cm/°C	
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
Electric Strength	35	30	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.70	11.0		
1 MHz	3.30	4.60		
Dissipation Factor				IEC 60250
100 Hz	0.011	0.14		
1 MHz	0.018	0.10		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	HB	--		
1.50 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 8.0		hr	
Rear Temperature	275 to 295		°C	
Middle Temperature	275 to 295		°C	
Front Temperature	275 to 290		°C	
Nozzle Temperature	280 to 290		°C	
Processing (Melt) Temp	280 to 305		°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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