

Akulon® S223-G2U

Polyamide 66

DSM Engineering Plastics

Message:

Akulon® S223-G2U is a Polyamide 66 (Nylon 66) material filled with 13% glass fiber. It is available in North America. Primary attribute of Akulon® S223-G2U: Flame Rated.

General Information				
Filler / Reinforcement	Glass Fiber, 13% Filler by Weight			
Forms	Pellets			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.5	--	%	
Flow	1.0	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5800	3000	MPa	ISO 527-2
Tensile Stress (Break)	105	72.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	9.0	%	ISO 527-2
Flexural Modulus	4700	--	MPa	ISO 178
Flexural Stress	165	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	3.0	kJ/m ²	
23°C	4.0	6.0	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	240	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	HB	--		
1.50 mm	HB	--		
Injection	Dry	Unit	Unit	Test Method

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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