

Akulon® S223-HG3

Polyamide 66
DSM Engineering Plastics

Message:

Akulon® S223-HG3 is a polyamide 66 (nylon 66) material, which contains a 15% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific.

Akulon® The main features of the S223-HG3 are:

flame retardant/rated flame

heat stabilizer

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 15% filler by weight		
Additive		heat stabilizer		
Features		Thermal Stability		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.25	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Flow	1.0	--	%	ISO 294-4
Transverse flow	1.5	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	7.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6500	4000	MPa	ISO 527-2
Tensile Stress (Break)	115	80.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2
Flexural Modulus	5100	--	MPa	ISO 178
Flexural Stress	175	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	3.5	kJ/m ²	ISO 179/1eA
23°C	5.0	8.0	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	255	--	°C	ISO 75-2/B
1.8 MPa, not annealed	240	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Test Method	

Flammability Classification			IEC 60695-11-10, -20
0.71 mm	HB	--	IEC 60695-11-10, -20
1.6 mm	HB	--	IEC 60695-11-10, -20

NOTE

1. 10°C/min

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Recommended distributors for this material

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