Akulon® S223-PG8

Polyamide 66

DSM Engineering Plastics

Message:

Akulon® S223-PG8 is a Polyamide 66 (Nylon 66) material filled with 40% glass fiber. It is available in Europe. Primary attribute of Akulon® S223-PG8: Impact Modified.

General Information				
Filler / Reinforcement	Glass Fiber,40% Filler by Weight			
Additive	Impact Modifier			
Features	Impact Modified			
Forms	Pellets			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.42	--	g/cm³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	4.5	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	11500	7500	MPa	ISO 527-2
Tensile Stress (Break)	175	125	MPa	ISO 527-2
Tensile Strain (Break)	3.5	5.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	14	14	kJ/m²	
23°C	20	30	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	100	kJ/m²	
23°C	95	100	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°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	6.0E-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	25	20	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.50	14.0		
1 MHz	3.30	4.50		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.30		
1 MHz	0.015	0.12		
Comparative Tracking Index	--	600	V	IEC 60112

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

Recommended distributors for this material

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