

Akulon® N24-G8

Polyamide 6
DSM Engineering Plastics

Message:

Akulon® N24-G8 is a Polyamide 6 (Nylon 6) material filled with 40% glass fiber. It is available in Asia Pacific. Primary attribute of Akulon® N24-G8: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	5.5	%	
Equilibrium, 23°C, 50% RH	1.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Break)	200	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature ¹	220	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	5.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.50		
1 MHz	3.30		
Dissipation Factor			IEC 60250
100 Hz	5.0E-3		
1 MHz	0.015		
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0 to 8.0	hr
Rear Temperature	255 to 265	°C
Middle Temperature	265 to 275	°C
Front Temperature	265 to 280	°C
Nozzle Temperature	260 to 280	°C
Processing (Melt) Temp	250 to 285	°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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