

NILAMID® B3 GCF2006

Polyamide 6

Nilit Plastics

Message:

NILAMID® B3 GCF2006 is a Polyamide 6 (Nylon 6) compound, 20% glass fiber and carbon fiber reinforced.

This compound is intended for injection molding.

NILAMID® B3 GCF2006 is primarily designed for the Automotive industry. It is also suitable for Industrial & Consumer applications.

General Information			
Filler / Reinforcement	Carbon Fiber,6.0% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Uses	Automotive Applications		
	Consumer Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.29	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	0.80	%	
Flow : 23°C	0.30	%	
Water Absorption			ISO 62
23°C, 24 hr	1.9	%	
Saturation, 23°C	7.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	10500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	175	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	No Break		
30°C	45	kJ/m ²	
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
Continuous Use Temperature ¹	110	°C	IEC 60216

Ball Pressure Test		IEC 60695-10-2
125°C	Pass	
165°C	Pass	
Flammability	Nominal Value	Test Method
Flame Rating		UL 94
0.800 mm	HB	
1.60 mm	HB	
3.20 mm	HB	
NOTE		
1.	20000 hr	

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