

NILAMID® B3 CU90

Polyamide 6

Nilit Plastics

Message:

NILAMID® B3 CU90 is a Polyamide 6 (Nylon 6) compound, 90% copper filled.

This compound is intended for injection molding.

NILAMID® B3 CU90 is primarily designed for the Automotive industry. It is also suitable for Electrical and Electronic or Industrial & Consumer applications.

General Information			
Filler / Reinforcement	Copper,90% Filler by Weight		
Uses	Automotive Applications		
	Consumer Applications		
	Electrical/Electronic Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	5.20	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	0.40	%	
Saturation, 23°C	2.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	18.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	20	kJ/m ²	
30°C	15	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	°C	ISO 75-2/A
Continuous Use Temperature ¹	120	°C	IEC 60216
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	1.0E+8	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+9	ohms·cm	IEC 60093
NOTE			
1.	20000 hr		
2.	23°C		

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