

NILAMID® B3 D

Polyamide 6

Nilit Plastics

Message:

NILAMID® B3 D is an unfilled easy flow Polyamide 6 (Nylon 6) compound, impact modified, UL listed HB.

This compound is intended for injection molding.

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

General Information			
UL YellowCard	E172252-100760340	E331274-100305908	E86034-251981
Features	Good Flow		
	Good Impact Resistance		
Uses	Automotive Applications		
	Consumer Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.11	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.9	%	
Flow : 23°C	1.7	%	
Water Absorption			ISO 62
23°C, 24 hr	2.5	%	
Saturation, 23°C	7.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	70.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Continuous Use Temperature ¹	85.0	°C	IEC 60216
Ball Pressure Test			
125°C	Pass		
165°C	Pass		

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ²	1.0E+12	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (3.20 mm, Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
3.20 mm	HB		
NOTE			
1.	20000 hr		
2.	23°C		

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