

NILAMID® B3 W J20

Polyamide 6

Nilit Plastics

Message:

NILAMID® B3 W J20 is an unfilled Polyamide 6 (Nylon 6) compound, high impact modified, UL listed HB.
This compound is intended for injection molding.
NILAMID® B3 W J20 is primarily designed for the Automotive industry. It is also suitable for Industrial & Consumer applications.

General Information			
UL YellowCard	E172252-100760331	E331274-100305899	E86034-251972
Features	E172252-101977622		
	Low Temperature Flexibility		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
	Consumer Applications		
	Industrial Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.06	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.3	%	
Flow : 23°C	1.2	%	
Water Absorption			ISO 62
23°C, 24 hr	2.0	%	
Saturation, 23°C	7.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1850	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	50.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 50	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	
23°C	28	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	No Break		
30°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	160	°C	ISO 75-2/B

1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Continuous Use Temperature ¹	85.0	°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+12	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15	ohms·cm	IEC 60093
Comparative Tracking Index (3.20 mm, Solution A)	450	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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