

NILAMID® A3 J20

Polyamide 66

Nilit Plastics

Message:

NILAMID® A3 J20 is an unfilled Polyamide 66 (Nylon 66) compound, high impact modified.

This compound is intended for injection molding.

NILAMID® A3 J20 is primarily designed for the Automotive industry. It is also suitable for Industrial & Consumer applications.

General Information			
Features	Good Flexibility		
	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)	1.07	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C	1.3	%	
Flow : 23°C	1.3	%	
Water Absorption			ISO 62
23°C, 24 hr	0.90	%	
Saturation, 23°C	6.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	45.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield, 23°C	> 15	%	
Break, 23°C	> 80	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	18	kJ/m ²	
23°C	55	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
23°C	No Break		
30°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C	20	kJ/m ²	

23°C	80	kJ/m ²	
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
Electric Strength (2.00 mm)	20	kV/mm	IEC 60243-1
Comparative Tracking Index (3.20 mm, Solution A)	500	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		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	550	°C	
3.20 mm	550	°C	
Oxygen Index	20	%	ISO 4589-2
NOTE			
1.	20000 hr		
2.	23°C		

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