

POLYNIL® P100

Polyamide 66

Nilit Plastics

Message:

POLYNIL® P100 is an unreinforced Polyamide 66 (Nylon 66) for extrusion.
This 3.5 viscosity Polyamide 66 resin is FDA compliant and is NSF-61 certified for contact with potable water.

General Information			
Uses	Monofilaments		
Agency Ratings	FDA Unspecified Rating		
	NSF 61		
Processing Method	Filament Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.14	g/cm³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	1.5	%	
Saturation, 23°C	8.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	82.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	100	%	ISO 527-2
Flexural Modulus (23°C)	2700	MPa	ISO 178
Flexural Stress (23°C)	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.0	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	72.0	°C	ISO 75-2/A
Continuous Use Temperature ¹	85.0	°C	IEC 60216
Vicat Softening Temperature	240	°C	ISO 306/B
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		
Melting Temperature	258	°C	
Electrical	Nominal Value	Unit	Test Method
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		
3.20 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	750	°C	
3.20 mm	850	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	775	°C	
3.20 mm	750	°C	
Oxygen Index	28	%	ISO 4589-2
NOTE			

1.

20000 hr

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