

POLYNIL® P50/1

Polyamide 66

Nilit Plastics

Message:

POLYNIL® P50/1 is an unreinforced Polyamide 66 (Nylon 66) for compounding and alloying.
This general pourpose 2.7 viscosity Polyamide 66 resin is FDA compliant.
POLYNIL® P50/1 has moisture content lower than 0.1%.

General Information			
Uses	Compounding		
	Monofilaments		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Compounding		
	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)	3.10	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	81.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	50	%	ISO 527-2
Flexural Modulus (23°C)	2850	MPa	ISO 178
Flexural Stress (23°C)	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.5	kJ/m²	
23°C	5.5	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/A
-30°C	4.5	kJ/m²	
23°C	5.5	kJ/m²	
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
Electric Strength (2.00 mm)	18	kV/mm	IEC 60243-1
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	V-2		
3.20 mm	V-2		
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

