POLYNIL® P50/4

Polyamide 66

Nilit Plastics

Message:

POLYNIL® P50/4 is an unreiforced Polyamide 66 (Nylon 66) for compounding and alloying.
This general pourpose 2.7 viscosity Polyamide 66 resin is FDA compliant.
POLYNIL® P50/4 has moisture content lower than 0.4%.

General Information			
Uses	Compounding		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Compounding		
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		

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