

POLYNIL® P50 EF/4

Polyamide 66

Nilit Plastics

Message:

POLYNIL® P50 EF/4 is an unreinforced extra flow Polyamide 66 (Nylon 66) for compounding and alloying.

This Polyamide 66 resin is designed for long glass fibers pultrusion and is FDA compliant.

POLYNIL® P50 EF/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/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr	1.5	%	
Saturation, 23°C	8.5	%	
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus (23°C)	2850	MPa	ISO 178
Flexural Stress (23°C)	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/A
-30°C	4.5	kJ/m ²	
23°C	5.5	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Continuous Use Temperature ¹	85.0	°C	IEC 60216
Vicat Softening Temperature	240	°C	ISO 306/B
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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