

POLYNIL® P43/4

Polyamide 66

Nilit Plastics

Message:

PA 6.6 RESIN

DESIGNED FOR COMPOUNDING, INJECTION AND EXTRUSION

LARGE VISCOSITY RANGE

UL LISTED

SUITABLE FOR CONTACT WITH FOOD AND POTABLE WATER

2.6 VISCOSITY, FDA COMPLIANT, MOISTURE <0.4%

General Information			
Uses	Composite		
Agency Ratings	FDA not rated		
Processing Method	Composite		
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	%	ISO 62
Saturated, 23°C	8.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3100	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/m ²	ISO 179/1eA
23°C	5.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/A
-30°C	4.5	kJ/m ²	ISO 180/A
23°C	5.5	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	225	°C	ISO 75-2/B
1.8 MPa, not annealed	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		IEC 60695-10-2

165°C	Pass		IEC 60695-10-2
Melting Temperature	258	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric 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
0.8 mm	V-2		UL 94
3.2 mm	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.8 mm	750	°C	IEC 60695-2-12
3.2 mm	850	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.8 mm	775	°C	IEC 60695-2-13
3.2 mm	750	°C	IEC 60695-2-13
Oxygen Index	28	%	ISO 4589-2
NOTE			
1.	20000 hr		

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