

POLYNIL® C50

Polyamide 66/6 Copolymer

Nilit Plastics

Message:

POLYNIL® C50 is an unreinforced Polyamide 66/6 (Nylon 66/6) copolymer for compounding and alloying. This general pourpose 2.7 viscosity Polyamide 66/6 resin is FDA compliant.

General Information			
Uses	Compounding		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Compounding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	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)	2.50	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	81.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	80	%	ISO 527-2
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural Stress (23°C)	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m²	
23°C	6.5	kJ/m²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	6.0	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Vicat Softening Temperature	220	°C	ISO 306/B
Ball Pressure Test			IEC 60695-10-2
125°C	Pass		
165°C	Pass		
Melting Temperature	249	°C	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (3.20 mm, Solution A)	600	V	IEC 60112

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