

Nycal™ 1850N6/X

Polyamide 6
Technical Polymers, LLC

Message:

Nycal™ 1850N6/X is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.
Important attributes of Nycal™ 1850N6/X are:
Flame Rated
Fast Molding Cycle
Lubricated
Typical application of Nycal™ 1850N6/X: Plumbing/Piping/Potable Water

General Information			
Additive	Lubricant		
Features	Fast Molding Cycle		
	Lubricated		
Agency Ratings	NSF 51		
	NSF 61		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, 23°C)	85.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	> 15	%	ISO 527-2
Flexural Modulus (23°C)	2400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	245 to 280	°C	

Mold Temperature	40.0 to 90.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	0.103 to 0.689	MPa
Screw Speed	100	rpm
Clamp Tonnage	3.4 to 5.5	kN/cm ²
Cushion	6.35 to 12.7	mm
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.5:1.0	

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Recommended distributors for this material

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