

Nycal™ 1820N5 Bk-1/X

Polyamide 6
Technical Polymers, LLC

Message:

Nycal™ 1820N5 Bk-1/X is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.

Important attributes of Nycal™ 1820N5 Bk-1/X are:

Fast Molding Cycle

Lubricated

General Information			
Additive	Lubricant		
Features	Fast Molding Cycle		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	84.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	> 10	%	ASTM D638
Flexural Modulus (23°C)	2930	MPa	ASTM D790
Flexural Strength (23°C)	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	177	°C	
1.8 MPa, Unannealed	71.1	°C	
Peak Melting Temperature	220	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+14	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 79.4	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	243 to 277	°C	
Mold Temperature	37.8 to 93.3	°C	

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