

# Nycal™ 1820R33 Bk-1

Polyamide 6

Technical Polymers, LLC

## Message:

Nycal™ 1820R33 Bk-1 is a Polyamide 6 (Nylon 6) material filled with 33% glass fiber. It is available in North America for injection molding. Primary attribute of Nycal™ 1820R33 Bk-1: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	162	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	2.0 to 4.0	%	ASTM D638
Flexural Modulus (23°C)	8620	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	204	°C	
Peak Melting Temperature	220	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	73.9 to 79.4	°C	
Drying Time	3.0 to 4.0	hr	
Processing (Melt) Temp	260 to 288	°C	
Mold Temperature	65.6 to 98.9	°C	

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Recommended distributors for this material

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