

# Nycal™ 1850N5/X

Polyamide 6  
Technical Polymers, LLC

Message:

Nycal™ 1850N5/X is a Polyamide 6 (Nylon 6) material. It is available in North America for injection molding.  
Important attributes of Nycal™ 1850N5/X are:  
Flame Rated  
Fast Molding Cycle

| General Information                 |                    |                   |             |
|-------------------------------------|--------------------|-------------------|-------------|
| Features                            | Fast Molding Cycle |                   |             |
| Forms                               | Pellets            |                   |             |
| Processing Method                   | Injection Molding  |                   |             |
| Physical                            | Nominal Value      | Unit              | Test Method |
| Density                             | 1.14               | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                          | Nominal Value      | Unit              | Test Method |
| Tensile Stress (Yield, 23°C)        | 80.0               | 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 <sup>2</sup> | 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                |             |

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