

# Nycal™ 2070L

Polyamide 612  
Technical Polymers, LLC

Message:

Nycal™2070L is a polyamide 612 (nylon 6/12) material. This product is available in North America and is processed by extrusion or injection molding.  
Nycal™The main features of 2070L are:  
high viscosity  
Lubrication

| General Information |                   |
|---------------------|-------------------|
| Additive            | Lubricant         |
| Features            | Lubrication       |
|                     | Viscosity, High   |
| Appearance          | Natural color     |
| Forms               | Particle          |
| Processing Method   | Extrusion         |
|                     | Injection molding |

| Physical                          | Nominal Value | Unit              | Test Method |
|-----------------------------------|---------------|-------------------|-------------|
| Specific Gravity                  | 1.04          | g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                        | Nominal Value | Unit              | Test Method |
| Tensile Strength (23°C)           | 58.6          | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)  | 30            | %                 | ASTM D638   |
| Flexural Modulus (23°C)           | 2280          | MPa               | ASTM D790   |
| Flexural Strength (23°C)          | 75.8          | MPa               | ASTM D790   |
| Impact                            | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (23°C)        | 37            | J/m               | ASTM D256   |
| Thermal                           | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load |               |                   | ASTM D648   |
| 0.45 MPa, not annealed            | 135           | °C                | ASTM D648   |
| 1.8 MPa, not annealed             | 57.2          | °C                | ASTM D648   |
| Melting Temperature               | 218           | °C                | DSC         |
| Electrical                        | Nominal Value | Unit              | Test Method |
| Volume Resistivity                | 1.0E+13       | ohms · cm         | ASTM D257   |

| Additional Information                                                        |               |      |
|-------------------------------------------------------------------------------|---------------|------|
| Tensile Elongation, ASTM D638: >30%Volum Resistivity, ASTM D257: >1e13 ohm-cm |               |      |
| Injection                                                                     | Nominal Value | Unit |
| Drying Temperature                                                            | 73.9 - 79.4   | °C   |
| Drying Time                                                                   | 2.0 - 4.0     | hr   |
| Processing (Melt) Temp                                                        | 232 - 277     | °C   |

|                         |               |                    |
|-------------------------|---------------|--------------------|
| Mold Temperature        | 48.9 - 93.3   | °C                 |
| Injection Rate          | Moderate-Fast |                    |
| Back Pressure           | 0.103 - 0.689 | MPa                |
| Screw Speed             | 100           | rpm                |
| Clamp Tonnage           | 3.4 - 5.5     | kN/cm <sup>2</sup> |
| Cushion                 | 3.18 - 12.7   | mm                 |
| Screw L/D Ratio         | 20.0:1.0      |                    |
| Screw Compression Ratio | 2.5:1.0       |                    |

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