

# Wellamid® NY1599-N

Polyamide 66  
Wellman Engineering Resins

Message:

Wellamid® NY1599-N is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

| General Information                               |                   |                   |             |
|---------------------------------------------------|-------------------|-------------------|-------------|
| Features                                          | General Purpose   |                   |             |
| Uses                                              | General Purpose   |                   |             |
| Appearance                                        | Natural Color     |                   |             |
| Forms                                             | Pellets           |                   |             |
| Processing Method                                 | Injection Molding |                   |             |
| Physical                                          | Nominal Value     | Unit              | Test Method |
| Density                                           | 1.16              | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                                 |                   |                   | ISO 294-4   |
| Across Flow : 23°C                                | 0.90 to 1.3       | %                 |             |
| Flow : 23°C                                       | 0.90 to 1.3       | %                 |             |
| Mechanical                                        | Nominal Value     | Unit              | Test Method |
| Tensile Stress (Yield, 23°C)                      | 80.0              | MPa               | ISO 527-2   |
| Tensile Strain (Yield, 23°C)                      | 10                | %                 | ISO 527-2   |
| Flexural Modulus (23°C)                           | 3000              | MPa               | ISO 178     |
| Flexural Stress (23°C)                            | 115               | MPa               | ISO 178     |
| Impact                                            | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact Strength (23°C)               | 4.0               | kJ/m <sup>2</sup> | ISO 180     |
| Thermal                                           | Nominal Value     | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 80.0              | °C                | ISO 75-2/A  |
| Melting Temperature (DSC)                         | 260               | °C                | ISO 3146    |
| Injection                                         | Nominal Value     | Unit              |             |
| Drying Temperature                                | 79.4              | °C                |             |
| Drying Time                                       | 2.0 to 4.0        | hr                |             |
| Suggested Max Moisture                            | 0.20              | %                 |             |
| Rear Temperature                                  | 260 to 282        | °C                |             |
| Middle Temperature                                | 260 to 277        | °C                |             |
| Front Temperature                                 | 260 to 271        | °C                |             |
| Nozzle Temperature                                | 260 to 293        | °C                |             |
| Processing (Melt) Temp                            | 271 to 293        | °C                |             |
| Mold Temperature                                  | 37.8 to 93.3      | °C                |             |
| Injection Pressure                                | 34.5 to 138       | MPa               |             |
| Back Pressure                                     | 0.345             | MPa               |             |

Screw Speed

30 to 120

rpm

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#### Recommended distributors for this material

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