



# LubriOne™ NY-30GF/17T

## Polyamide 6

### Key Characteristics

#### Product Description

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

#### General

|                       |                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material Status       | • Commercial: Active                                                                                                                                                                                                          |
| Regional Availability | • Europe                                                                                                                                                                                                                      |
| Features              | • Filled<br>• Low Friction<br>• Lubricated<br>• Wear Resistant                                                                                                                                                                |
| Uses                  | • Appliance Components<br>• Automotive Applications<br>• Bearings<br>• Business Equipment<br>• Consumer Applications<br>• Conveyor Parts<br>• Gears<br>• Industrial Applications<br>• Printer Parts<br>• Pulleys<br>• Rollers |
| Forms                 | • Pellets                                                                                                                                                                                                                     |
| Processing Method     | • Injection Molding                                                                                                                                                                                                           |

### Technical Properties <sup>1</sup>

| Physical                                                  | Typical Value (English)        | Typical Value (SI)             | Test Method    |
|-----------------------------------------------------------|--------------------------------|--------------------------------|----------------|
| Density                                                   | 1.50 to 1.54 g/cm <sup>3</sup> | 1.50 to 1.54 g/cm <sup>3</sup> | ISO 1183       |
| Mechanical                                                | Typical Value (English)        | Typical Value (SI)             | Test Method    |
| Tensile Modulus                                           | 1.29E+6 psi                    | 8900 MPa                       | ISO 527-2      |
| Tensile Stress                                            | 21800 psi                      | 150 MPa                        | ISO 527-2      |
| Tensile Strain (Break)                                    | < 3.0 %                        | < 3.0 %                        | ISO 527-2      |
| Flexural Modulus                                          | 943000 psi                     | 6500 MPa                       | ISO 178        |
| Flexural Stress                                           | 29000 psi                      | 200 MPa                        | ISO 178        |
| Impact                                                    | Typical Value (English)        | Typical Value (SI)             | Test Method    |
| Charpy Notched Impact Strength (73°F (23°C))              | 6.2 ft·lb/in <sup>2</sup>      | 13 kJ/m <sup>2</sup>           | ISO 179        |
| Charpy Unnotched Impact Strength 73°F (23°C)              | 38 ft·lb/in <sup>2</sup>       | 80 kJ/m <sup>2</sup>           | ISO 179        |
| Thermal                                                   | Typical Value (English)        | Typical Value (SI)             | Test Method    |
| Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed | 410 °F                         | 210 °C                         | ISO 75-2/B     |
| Heat Deflection Temperature 264 psi (1.8 MPa), Unannealed | 392 °F                         | 200 °C                         | ISO 75-2/A     |
| Melting Temperature (DSC)                                 | 419 to 437 °F                  | 215 to 225 °C                  | ISO 3146       |
| Electrical                                                | Typical Value (English)        | Typical Value (SI)             | Test Method    |
| Comparative Tracking Index                                | 500 V                          | 500 V                          | IEC 60112      |
| Flammability                                              | Typical Value (English)        | Typical Value (SI)             | Test Method    |
| Flame Rating                                              | HB                             | HB                             | UL 94          |
| Glow Wire Flammability Index 0.06 in (1.6 mm)             | 1380 °F                        | 750 °C                         | IEC 60695-2-12 |

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## Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 3.0 hr                  | 3.0 hr             |
| Processing (Melt) Temp | 500 to 554 °F           | 260 to 290 °C      |
| Mold Temperature       | 122 to 194 °F           | 50 to 90 °C        |

## Notes

<sup>1</sup> Typical values are not to be construed as specifications.

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