

# LubriOne™ NN-000/20T-02S natural

## Polyamide 66

### 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                                                                                                                                                                                                                                                                                                            | • Africa & Middle East                                                                    | • Europe                                                                            |                                           |
| Features                                                                                                                                                                                                                                                                                                                         | • Low Friction                                                                            | • Lubricated                                                                        | • Wear Resistant                          |
| Uses                                                                                                                                                                                                                                                                                                                             | • Appliance Components<br>• Automotive Applications<br>• Bearings<br>• Business Equipment | • Consumer Applications<br>• Conveyor Parts<br>• Gears<br>• Industrial Applications | • 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                                                            | 1.25 g/cm <sup>3</sup>    | 1.25 g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                                         | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Tensile Modulus                                                    | 363000 psi                | 2500 MPa               | ISO 527-1   |
| Tensile Stress                                                     | 9430 psi                  | 65.0 MPa               | ISO 527-2   |
| Tensile Strain (Break)                                             | 6.0 %                     | 6.0 %                  | ISO 527-2   |
| Impact                                                             | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Charpy Notched Impact Strength                                     | 1.4 ft·lb/in <sup>2</sup> | 3.0 kJ/m <sup>2</sup>  | ISO 179     |
| Charpy Unnotched Impact Strength                                   | 31 ft·lb/in <sup>2</sup>  | 65 kJ/m <sup>2</sup>   | ISO 179     |
| Thermal                                                            | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Deflection Temperature Under Load<br>66 psi (0.45 MPa), Unannealed | 446 °F                    | 230 °C                 | ISO 75-2/B  |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed | 176 °F                    | 80.0 °C                | ISO 75-2/A  |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 518 to 572 °F           | 270 to 300 °C      |

### Notes

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

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