



# LubriOne™ AM-20CF/13T-2S BLACK

## Polyphthalamide

### 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              | • Low Friction • Lubricated • Wear Resistant   |
| Uses                  | • Appliance Components • Consumer Applications • Printer Parts<br>• Automotive Applications • Conveyor Parts • Pulleys<br>• Bearings • Gears • Rollers<br>• Business Equipment • Industrial Applications |
| Forms                 | • Pellets  |
| Processing Method     | • Injection Molding  |

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

| Physical   | Typical Value (English)   | Typical Value (SI)     | Test Method |
|--|---------------------------|------------------------|-------------|
| Density <sup>2</sup> (73°F (23°C))                           | 1.37 g/cm <sup>3</sup>    | 1.37 g/cm <sup>3</sup> | ISO 1183    |
| Mechanical   | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Tensile Modulus  | 2.54E+6 psi               | 17500 MPa              | ISO 527-2   |
| Tensile Stress (Break)                                       | 29000 psi                 | 200 MPa                | ISO 527-2   |
| Tensile Strain (Break)                                       | 1.0 %                     | 1.0 %                  | ISO 527-2   |
| Flexural Modulus   | 2.32E+6 psi               | 16000 MPa              | ISO 178     |
| Flexural Stress  | 47900 psi                 | 330 MPa                | ISO 178     |
| Impact   | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Charpy Notched Impact Strength                               | 2.9 ft·lb/in <sup>2</sup> | 6.0 kJ/m <sup>2</sup>  | ISO 179     |
| Unnotched Izod Impact Strength                               | 24 ft·lb/in <sup>2</sup>  | 50 kJ/m <sup>2</sup>   | ISO 180     |
| Thermal  | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Heat Deflection Temperature<br>264 psi (1.8 MPa), Unannealed | 536 °F                    | 280 °C                 | ISO 75-2/A  |
| Flammability   | Typical Value (English)   | Typical Value (SI)     | Test Method |
| Burning Rate   | < 3.9 in/min              | < 100 mm/min           | ISO 3795    |
| Flame Rating   | HB                        | HB                     | UL 94       |

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 248 °F                  | 120 °C             |
| Drying Time            | 4.0 hr                  | 4.0 hr             |
| Processing (Melt) Temp | 599 to 644 °F           | 315 to 340 °C      |
| Mold Temperature       | > 284 °F                | > 140 °C           |

#### Notes

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

<sup>2</sup> ±0.03