

## PolyOne LubriOne™ NN-30GF/13T-2S Black Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-LubriOne-NN-30GF13T-2S-Black-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-LubriOne-NN-30GF13T-2S-Black-Polyamide-66-Nylon-66.php)

| Physical Properties               | Metric                | English               | Comments            |
|-----------------------------------|-----------------------|-----------------------|---------------------|
| Specific Gravity                  | 1.47 g/cc             | 1.47 g/cc             | ASTM D792           |
| Water Absorption                  | 0.60 %                | 0.60 %                | @ 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow       | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in | ASTM D955           |
| Linear Mold Shrinkage, Transverse | 0.010 - 0.020 cm/cm   | 0.010 - 0.020 in/in   | ASTM D955           |

| Mechanical Properties            | Metric   | English  | Comments                        |
|----------------------------------|--|--|---------------------------------|
| Tensile Strength at Break        | 117 MPa  | 17000 psi  | Type I, 5.1 mm/min; ASTM D638   |
| Tensile Strength, Yield          | 117 MPa  | 17000 psi  | ASTM D638                       |
| Elongation at Break              | 2.6 %  | 2.6 %  | Type I, 5.1 mm/min; ASTM D638   |
| Tensile Modulus                  | 8.76 GPa   | 1270 ksi   | Type I, 5.1 mm/min; ASTM D638   |
| Flexural Strength                | 214 MPa  | 31000 psi  | ASTM D790                       |
| Flexural Modulus                 | 7.58 GPa   | 1100 ksi   | ASTM D790                       |
| Izod Impact, Notched             | 0.800 J/cm<br>@Thickness 6.35 mm,<br>Temperature 23.0 °C | 1.50 ft-lb/in<br>@Thickness 0.250 in,<br>Temperature 73.4 °F | Injection Molded; ASTM D256A    |
| Coefficient of Friction, Dynamic | 0.15   | 0.15   | vs. Steel - Dynamic; ASTM D1894 |
| Coefficient of Friction, Static  | 0.28   | 0.28   | vs. Steel - Static; ASTM D1894  |

| Thermal Properties                          | Metric                       | English                       | Comments            |
|---|------------------------------|-------------------------------|---------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 257 °C<br>@Thickness 3.18 mm | 495 °F<br>@Thickness 0.125 in | Annealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 242 °C<br>@Thickness 3.18 mm | 468 °F<br>@Thickness 0.125 in | Annealed; ASTM D648 |

| Thermal Properties    | Metric           | English          | Comments |
|-----------------------|------------------|------------------|----------|
| Processing Properties | Metric           | English          | Comments |
| Melt Temperature      | 288 - 299 °C     | 550 - 570 °F     |          |
| Mold Temperature      | 65.6 - 93.3 °C   | 150 - 200 °F     |          |
| Drying Temperature    | 71.1 - 82.2 °C   | 160 - 180 °F     |          |
| Dry Time              | 2.00 - 4.00 hour | 2.00 - 4.00 hour |          |

| Descriptive Properties | Value                   | Comments |
|------------------------|-------------------------|----------|
| Appearance             | Black                   |          |
| Features               | Good Wear Resistance    |          |
|                        | High Stiffness          |          |
|                        | Lubricated              |          |
| Forms                  | Pellets                 |          |
| Generic Material       | Nylon 66                |          |
| Generic Name           | Polyamide 66 (Nylon 66) |          |
| Processing Method      | Injection Molding       |          |
| Regional Availability  | Africa & Middle East    |          |
|                        | Asia Pacific            |          |
|                        | Europe                  |          |
|                        | North America           |          |
|                        | South America           |          |
| RoHS Compliance        | RoHS Compliant          |          |
| Uses                   | Appliance Components    |          |
|                        | Automotive Applications |          |
|                        | Bearings                |          |
|                        | Business Equipment      |          |
|                        | Consumer Applications   |          |
|                        | Conveyor Parts          |          |
|                        | Gears                   |          |

| Descriptive Properties | Value         | Comments |
|------------------------|---------------|----------|
|                        | Printer Parts |          |
|                        | Pulleys       |          |
|                        | Rollers       |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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