

## SABIC Innovative Plastics LNP LUBRICOMP KP004 Acetal Copolymer (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

### Material Notes:

LNP\* Lubricomp\* KP004 is a compound based on Acetal Copolymer resin containing PTFE, Silicone.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KP004-Acetal-Copolymer-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-KP004-Acetal-Copolymer-Europe-Africa-Middle-East.php)

| Physical Properties               | Metric                                 | English                                | Comments |
|-----------------------------------|--|--|----------|
| Density                           | 1.48 g/cc                              | 0.0535 lb/in <sup>3</sup>              | ISO 1183 |
| Linear Mold Shrinkage, Transverse | 0.021 - 0.029 cm/cm<br>@Time 86400 sec | 0.021 - 0.029 in/in<br>@Time 24.0 hour | ISO 294  |

| Mechanical Properties            | Metric                                       | English  | Comments                    |
|----------------------------------|--|--|-----------------------------|
| Tensile Strength at Break        | 39.0 MPa                                     | 5660 psi   | 5 mm/min; ISO 527           |
| Elongation at Break              | >= 15 %                                      | >= 15 %  | 5 mm/min; ISO 527           |
| Flexural Strength                | 47.0 MPa                                     | 6820 psi   | 2 mm/min; ISO 178           |
| Flexural Modulus                 | 1.80 GPa                                     | 261 ksi  | 2 mm/min; ISO 178           |
| Izod Impact, Notched (ISO)       | 6.00 kJ/m <sup>2</sup>                       | 2.86 ft-lb/in <sup>2</sup>                             | 80*10*4; ISO 180/1A         |
| Izod Impact, Unnotched (ISO)     | 35.0 kJ/m <sup>2</sup>                       | 16.7 ft-lb/in <sup>2</sup>                             | 80*10*4; ISO 180/1U         |
| Coefficient of Friction, Dynamic | 0.25   | 0.25   | ASTM D3702 Modified         |
| Coefficient of Friction, Static  | 0.14   | 0.14   | ASTM D3702 Modified         |
| K (wear) Factor                  | 18.1 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M | 9.00 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties                          | Metric  | English   | Comments                         |
|---|---|---|----------------------------------|
| CTE, linear, Parallel to Flow               | 110 Åµm/m-Å°C<br>@Temperature 23.0 - 60.0 Å°C | 61.1 Åµin/in-Å°F<br>@Temperature 73.4 - 140 Å°F | ISO 11359-2                      |
| Deflection Temperature at 1.8 MPa (264 psi) | 79.0 Å°C                                      | 174 Å°F   | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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