

## SABIC Innovative Plastics LNP LUBRICOMP FL004 PE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethylene (PE)

**Material Notes:**

LNP\* Lubricomp\* FL004 is a compound based on Polyethylene resin containing PTFE.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-LUBRICOMP-FL004-PE-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-FL004-PE-Europe-Africa-Middle-East.php)

| Physical Properties         | Metric              | English                   | Comments                     |
|-----------------------------|---------------------|---------------------------|------------------------------|
| Density                     | 1.07 g/cc           | 0.0387 lb/in <sup>3</sup> | ISO 1183                     |
| Linear Mold Shrinkage, Flow | 0.024 - 0.028 cm/cm | 0.024 - 0.028 in/in       | on Tensile Bar; SABIC Method |

| Mechanical Properties        | Metric                 | English                    | Comments            |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength, Yield      | 21.0 MPa               | 3050 psi                   | 50 mm/min; ISO 527  |
| Elongation at Yield          | 8.3 %                  | 8.3 %                      | 50 mm/min; ISO 527  |
| Tensile Modulus              | 0.900 GPa              | 131 ksi                    | 1 mm/min; ISO 527   |
| Flexural Yield Strength      | 21.0 MPa               | 3050 psi                   | 2 mm/min; ISO 178   |
| Flexural Modulus             | 0.800 GPa              | 116 ksi                    | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 7.00 kJ/m <sup>2</sup> | 3.33 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 25.0 kJ/m <sup>2</sup> | 11.9 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U |

| Thermal Properties                          | Metric  | English   | Comments                         |
|---|---|---|----------------------------------|
| CTE, linear, Parallel to Flow               | 174 $\mu\text{m/m-}^\circ\text{C}$<br>@Temperature 23.0 - 60.0 $^\circ\text{C}$ | 96.7 $\mu\text{in/in-}^\circ\text{F}$<br>@Temperature 73.4 - 140 $^\circ\text{F}$ | ISO 11359-2                      |
| CTE, linear, Transverse to Flow             | 152 $\mu\text{m/m-}^\circ\text{C}$<br>@Temperature 23.0 - 60.0 $^\circ\text{C}$ | 84.4 $\mu\text{in/in-}^\circ\text{F}$<br>@Temperature 73.4 - 140 $^\circ\text{F}$ | ISO 11359-2                      |
| Deflection Temperature at 1.8 MPa (264 psi) | 47.0 $^\circ\text{C}$   | 117 $^\circ\text{F}$  | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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