

## SABIC Innovative Plastics LNP Thermocomp PH0700B PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

LNP\* Thermocomp\* PH0700B is a Nylon 6 base resin containing Tungsten. Characteristics are High Specific Gravity. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-PH0700B-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-PH0700B-PA-6.php)

| Physical Properties                | Metric                     | English                    | Comments           |
|------------------------------------|----------------------------|----------------------------|--------------------|
| Density                            | 6.78 g/cc                  | 0.245 lb/in <sup>3</sup>   | ASTM D 792         |
| Moisture Absorption at Equilibrium | 0.090 %<br>@Time 86400 sec | 0.090 %<br>@Time 24.0 hour | 50% RH; ASTM D 570 |

| Mechanical Properties     | Metric                                | English                                | Comments                           |
|---------------------------|---------------------------------------|--|------------------------------------|
| Tensile Strength at Break | 41.0 MPa                              | 5950 psi                               | Type I, 5 mm/min; ASTM D 638       |
| Tensile Strength, Yield   | 42.0 MPa                              | 6090 psi                               | Type I, 5 mm/min; ASTM D 638       |
| Elongation at Break       | 10.5 %                                | 10.5 %                                 | Type I, 5 mm/min; ASTM D 638       |
| Elongation at Yield       | 2.7 %                                 | 2.7 %                                  | Type I, 5 mm/min; ASTM D 638       |
| Tensile Modulus           | 6.86 GPa                              | 995 ksi                                | 50 mm/min; ASTM D 638              |
| Flexural Yield Strength   | 62.0 MPa                              | 8990 psi                               | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Flexural Modulus          | 3.86 GPa                              | 560 ksi                                | 1.3 mm/min, 50 mm span; ASTM D 790 |
| Izod Impact, Notched      | 1.06 J/cm<br>@Temperature 23.0<br>Â°C | 1.99 ft-lb/in<br>@Temperature 73.4 Â°F | ASTM D 256                         |
| Izod Impact, Unnotched    | 8.88 J/cm<br>@Temperature 23.0<br>Â°C | 16.6 ft-lb/in<br>@Temperature 73.4 Â°F | ASTM D 4812                        |

| Thermal Properties            | Metric   | English  | Comments   |
|-------------------------------|--|--|------------|
| CTE, linear, Parallel to Flow | 77.6 Âµm/m-Â°C<br>@Temperature -30.0 -<br>30.0 Â°C | 43.1 Âµin/in-Â°F<br>@Temperature -22.0 -<br>86.0 Â°F | ASTM D 696 |
|                               | 77.7 Âµm/m-Â°C                                     | 43.2 Âµin/in-Â°F                                     |            |

| CTE linear, Transverse to Flow<br>Thermal Properties | @Temperature -30.0 -<br>30.0 Â°C<br>Metric | @Temperature -22.0 -<br>58.0 Â°F<br>English | ASTM D 698<br>Comments |
|--|--|---|------------------------|
| Deflection Temperature at 0.46 MPa<br>(66 psi)       | 183 Â°C<br>@Thickness 3.20 mm              | 361 Â°F<br>@Thickness 0.126 in              | unannealed; ASTM D 648 |
| Deflection Temperature at 1.8 MPa<br>(264 psi)       | 70.0 Â°C<br>@Thickness 3.20 mm             | 158 Â°F<br>@Thickness 0.126 in              | unannealed; ASTM D 648 |

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