

## SABIC Innovative Plastics LNP Thermocomp PFB42ES PA 6 (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

### Material Notes:

LNP\* THERMOCOMP\* PFB42ES is a compound based on PA6 resin containing Glass Fiber, Glass Bead. Added features include: Easy Molding, Heat Stabilized. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-PFB42ES-PA-6-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-PFB42ES-PA-6-Europe-Africa-Middle-East.php)

| Physical Properties         | Metric                                     | English                                    | Comments     |
|-----------------------------|--|--|--------------|
| Density                     | 1.35 g/cc                                  | 0.0488 lb/in <sup>3</sup>                  | ISO 1183     |
| Water Absorption            | 1.9 %                                      | 1.9 %                                      | ISO 62-1     |
|                             | @Temperature 23.0<br>°C,<br>Time 86400 sec | @Temperature 73.4<br>°F,<br>Time 24.0 hour |              |
| Linear Mold Shrinkage, Flow | 0.0044 cm/cm                               | 0.0044 in/in                               | SABIC Method |

| Mechanical Properties        | Metric                  | English                    | Comments                           |
|------------------------------|-------------------------|----------------------------|------------------------------------|
| Tensile Strength at Break    | 93.0 MPa                | 13500 psi                  | 5 mm/min; ISO 527                  |
| Elongation at Break          | 2.6 %                   | 2.6 %                      | 5 mm/min; ISO 527                  |
|                              | 4.4 %                   | 4.4 %                      | Flexural Strain, 2 mm/min; ISO 178 |
| Tensile Modulus              | 5.70 GPa                | 827 ksi                    | 1 mm/min; ISO 527                  |
| Flexural Strength            | 145 MPa                 | 21000 psi                  | 2 mm/min; ISO 178                  |
| Flexural Yield Strength      | 145 MPa                 | 21000 psi                  | 2 mm/min; ISO 178                  |
| Flexural Modulus             | 4.70 GPa                | 682 ksi                    | 2 mm/min; ISO 178                  |
| Izod Impact, Notched (ISO)   | 5.00 kJ/m <sup>2</sup>  | 2.38 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A                |
|                              | @Temperature 23.0<br>°C | @Temperature 73.4 °F       |                                    |
| Izod Impact, Unnotched (ISO) | 20.0 kJ/m <sup>2</sup>  | 9.52 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U                |
|                              | @Temperature 23.0<br>°C | @Temperature 73.4 °F       |                                    |

| Thermal Properties            | Metric              | English             | Comments    |
|-------------------------------|---------------------|---------------------|-------------|
| CTE, linear, Parallel to Flow | 49.0 µm/m-°C        | 27.2 µin/in-°F      | ISO 11359-2 |
|                               | @Temperature 23.0 - | @Temperature 73.4 - |             |

| Thermal Properties                             | 60.0 Â°C<br>Metric                                | 140 Â°F<br>English                                 | Comments                         |
|--|---|--|----------------------------------|
| CTE, linear, Transverse to Flow                | 93.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>60.0 Â°C | 51.7 Âµin/in-Â°F<br>@Temperature 73.4 -<br>140 Â°F | ISO 11359-2                      |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 156 Â°C   | 313 Â°F  | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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