

## SABIC Innovative Plastics LNP Thermocomp EF008EXP PEI (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP\* Thermocomp\* EF008EXP is a compound based on Polyetherimide resin containing Glass Fiber. Added features of this material include: Easy Molding, Mold Release. 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-EF008EXP-PEI-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-EF008EXP-PEI-Europe-Africa-Middle-East.php)

| Physical Properties         | Metric                | English                   | Comments                     |
|-----------------------------|-----------------------|---------------------------|------------------------------|
| Density                     | 1.61 g/cc             | 0.0582 lb/in <sup>3</sup> | ISO 1183                     |
| Linear Mold Shrinkage, Flow | 0.0010 - 0.0030 cm/cm | 0.0010 - 0.0030 in/in     | on tensile bar; SABIC Method |

| Mechanical Properties        | Metric                                             | English                                             | Comments            |
|------------------------------|----------------------------------------------------|-----------------------------------------------------|---------------------|
| Tensile Strength at Break    | 188 MPa                                            | 27300 psi                                           | 5 mm/min; ISO 527   |
| Elongation at Break          | 1.6 %                                              | 1.6 %                                               | 5 mm/min; ISO 527   |
| Tensile Modulus              | 14.0 GPa                                           | 2030 ksi                                            | 1 mm/min; ISO 527   |
| Flexural Yield Strength      | 250 MPa                                            | 36300 psi                                           | 2 mm/min; ISO 178   |
| Flexural Modulus             | 11.5 GPa                                           | 1670 ksi                                            | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 9.00 kJ/m <sup>2</sup><br>@Temperature 23.0<br>Â°C | 4.28 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 40.0 kJ/m <sup>2</sup><br>@Temperature 23.0<br>Â°C | 19.0 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |

| Thermal Properties                             | Metric                                            | English                                            | Comments                         |
|------------------------------------------------|---------------------------------------------------|----------------------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow                  | 17.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>60.0 Â°C | 9.44 Âµin/in-Â°F<br>@Temperature 73.4 -<br>140 Â°F | ISO 11359-2                      |
| CTE, linear, Transverse to Flow                | 39.0 Âµm/m-Â°C<br>@Temperature 23.0 -<br>60.0 Â°C | 21.7 Âµin/in-Â°F<br>@Temperature 73.4 -<br>140 Â°F | ISO 11359-2                      |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 213 Â°C                                           | 415 Â°F                                            | Flatw 80*10*4 sp=64mm; ISO 75/Bf |

|                                                |                   |                    |                                              |
|------------------------------------------------|-------------------|--------------------|----------------------------------------------|
| Deflection Temperature at 1.8 MPa<br>(100 psi) | 206 Å°C<br>Metric | 403 Å°F<br>English | Flatw 80×10×4 sp=64mm; ISO 75/Af<br>Comments |
|------------------------------------------------|-------------------|--------------------|----------------------------------------------|

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