

## SABIC Innovative Plastics LNP THERMOCOMP RF008XXZ PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

## Material Notes:

LNP THERMOCOMP\* RF008XXZ is a compound based on Nylon 66 resin containing 40% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF008XXZ-PA-66.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF008XXZ-PA-66.php)

| Physical Properties               | Metric          | English                    | Comments                           |
|-----------------------------------|-----------------|----------------------------|------------------------------------|
| Density                           | 1.47 g/cc       | 0.0531 lb/in <sup>3</sup>  | ISO 1183                           |
|                                   | 1.478 g/cc      | 0.05340 lb/in <sup>3</sup> | ASTM D792                          |
| Moisture Absorption               | 0.600 %         | 0.600 %                    | 50% RH, 24 hrs; ASTM D570          |
|                                   | 0.970 %         | 0.970 %                    | 23 <sup>o</sup> C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow       | 0.0028 cm/cm    | 0.0028 in/in               | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour            |                                    |
|                                   | 0.0030 cm/cm    | 0.0030 in/in               | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour            |                                    |
| Linear Mold Shrinkage, Transverse | 0.013 cm/cm     | 0.013 in/in                | ASTM D955                          |
|                                   | @Time 86400 sec | @Time 24.0 hour            |                                    |
|                                   | 0.0134 cm/cm    | 0.0134 in/in               | ISO 294                            |
|                                   | @Time 86400 sec | @Time 24.0 hour            |                                    |

| Mechanical Properties     | Metric    | English   | Comments             |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 184 MPa   | 26700 psi | ASTM D638            |
|                           | 188 MPa   | 27300 psi | ISO 527              |
| Elongation at Break       | 2.5 %     | 2.5 %     | ASTM D638            |
|                           | 2.7 %     | 2.7 %     | ISO 527              |
| Tensile Modulus           | 12.2 GPa  | 1770 ksi  | 1 mm/min; ISO 527    |
|                           | 13.3 GPa  | 1930 ksi  | 50 mm/min; ASTM D638 |
| Flexural Strength         | 275 MPa   | 39900 psi | ASTM D790            |
|                           | 287 MPa   | 41600 psi | ISO 178              |
| Flexural Modulus          | 10.41 GPa | 1510 ksi  | ASTM D790            |

| Mechanical Properties        | Metric                 | English                    | Comments                                      |
|------------------------------|------------------------|----------------------------|-----------------------------------------------|
| Izod Impact, Notched         | 1.17 J/cm              | 2.19 ft-lb/in              | ASTM D256                                     |
| Izod Impact, Unnotched       | 11.37 J/cm             | 21.30 ft-lb/in             | ASTM D4812                                    |
| Izod Impact, Notched (ISO)   | 13.0 kJ/m <sup>2</sup> | 6.19 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A                           |
| Izod Impact, Unnotched (ISO) | 74.0 kJ/m <sup>2</sup> | 35.2 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U                           |
| Dart Drop, Total Energy      | 10.0 J                 | 7.38 ft-lb                 | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test                  | 3.00 J                 | 2.21 ft-lb                 | Multiaxial Impact; ISO 6603                   |

| Thermal Properties                          | Metric                        | English                      | Comments                         |
|---------------------------------------------|-------------------------------|------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow               | 25.2 Åµm/m-Å°C                | 14.0 Åµin/in-Å°F             | ASTM E 831                       |
|                                             | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F |                                  |
|                                             | 26.8 Åµm/m-Å°C                | 14.9 Åµin/in-Å°F             | ISO 11359-2                      |
|                                             | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F |                                  |
| CTE, linear, Transverse to Flow             | 57.6 Åµm/m-Å°C                | 32.0 Åµin/in-Å°F             | ASTM E 831                       |
|                                             | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F |                                  |
|                                             | 59.2 Åµm/m-Å°C                | 32.9 Åµin/in-Å°F             | ISO 11359-2                      |
|                                             | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F |                                  |
| Deflection Temperature at 1.8 MPa (264 psi) | >= 240 Å°C                    | >= 464 Å°F                   | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                             | 252 Å°C                       | 486 Å°F                      | unannealed; ASTM D648            |
|                                             | @Thickness 3.20 mm            | @Thickness 0.126 in          |                                  |
| Flammability, UL94                          | HB                            | HB                           | UL 94 by SABIC-IP                |
|                                             | @Thickness 1.50 mm            | @Thickness 0.0591 in         |                                  |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China