

## SABIC Innovative Plastics LNP THERMOCOMP DX05475 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* THERMOCOMP\* DX05474 is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX05475-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX05475-PC.php)

| Physical Properties               | Metric                                   | English                                  | Comments  |
|-----------------------------------|------------------------------------------|------------------------------------------|-----------|
| Density                           | 1.29 g/cc                                | 0.0466 lb/in <sup>3</sup>                | ASTM D792 |
| Linear Mold Shrinkage, Flow       | 0.0030 - 0.0050 cm/cm<br>@Time 86400 sec | 0.0030 - 0.0050 in/in<br>@Time 24.0 hour | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0040 cm/cm<br>@Time 86400 sec | 0.0030 - 0.0040 in/in<br>@Time 24.0 hour | ASTM D955 |

| Mechanical Properties     | Metric     | English        | Comments             |
|---------------------------|------------|----------------|----------------------|
| Tensile Strength at Break | 54.0 MPa   | 7830 psi       | ASTM D638            |
| Tensile Strength, Yield   | 59.0 MPa   | 8560 psi       | ASTM D638            |
| Elongation at Break       | 8.2 %      | 8.2 %          | ASTM D638            |
| Elongation at Yield       | 4.9 %      | 4.9 %          | ASTM D638            |
| Tensile Modulus           | 3.59 GPa   | 521 ksi        | 50 mm/min; ASTM D638 |
| Flexural Strength         | 103 MPa    | 14900 psi      | ASTM D790            |
| Flexural Modulus          | 3.61 GPa   | 524 ksi        | ASTM D790            |
| Izod Impact, Notched      | 0.580 J/cm | 1.09 ft-lb/in  | ASTM D256            |
| Izod Impact, Unnotched    | 10.68 J/cm | 20.01 ft-lb/in | ASTM D4812           |

| Thermal Properties                          | Metric                        | English                        | Comments              |
|---------------------------------------------|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 132 Â°C<br>@Thickness 3.20 mm | 270 Â°F<br>@Thickness 0.126 in | unannealed; ASTM D648 |

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