

## SABIC Innovative Plastics LNP THERMOCOMP DF0089 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

## Material Notes:

LNP THERMOCOMP\* DF0089 is a compound based on Polycarbonate resin containing 40% Glass Fiber. Added features include: Flame Retardant.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0089-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0089-PC.php)

| Physical Properties | Metric     | English                    | Comments  |
|---------------------|------------|----------------------------|-----------|
| Density             | 1.58 g/cc  | 0.0571 lb/in <sup>3</sup>  | ISO 1183  |
|                     | 1.589 g/cc | 0.05741 lb/in <sup>3</sup> | ASTM D792 |

| Mechanical Properties        | Metric                 | English                    | Comments                                      |
|------------------------------|------------------------|----------------------------|-----------------------------------------------|
| Tensile Strength at Break    | 130 MPa                | 18900 psi                  | ISO 527                                       |
|                              | 131 MPa                | 19000 psi                  | ASTM D638                                     |
| Elongation at Break          | 1.6 %                  | 1.6 %                      | ISO 527                                       |
|                              | 1.7 %                  | 1.7 %                      | ASTM D638                                     |
| Tensile Modulus              | 12.4 GPa               | 1800 ksi                   | 1 mm/min; ISO 527                             |
|                              | 13.72 GPa              | 1990 ksi                   | 50 mm/min; ASTM D638                          |
| Flexural Strength            | 190 MPa                | 27600 psi                  | ASTM D790                                     |
|                              | 203 MPa                | 29400 psi                  | ISO 178                                       |
| Flexural Modulus             | 11.79 GPa              | 1710 ksi                   | ASTM D790                                     |
|                              | 12.5 GPa               | 1810 ksi                   | ISO 178                                       |
| Izod Impact, Notched         | 0.900 J/cm             | 1.69 ft-lb/in              | ASTM D256                                     |
| Izod Impact, Unnotched       | 5.34 J/cm              | 10.0 ft-lb/in              | ASTM D4812                                    |
| Izod Impact, Notched (ISO)   | 10.0 kJ/m <sup>2</sup> | 4.76 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1A                           |
| Izod Impact, Unnotched (ISO) | 46.0 kJ/m <sup>2</sup> | 21.9 ft-lb/in <sup>2</sup> | 80*10*4; ISO 180/1U                           |
| Dart Drop, Total Energy      | 8.00 J                 | 5.90 ft-lb                 | Instrumented Impact Energy @ peak; ASTM D3763 |

| Thermal Properties                | Metric  | English | Comments                          |
|-----------------------------------|---------|---------|-----------------------------------|
| Deflection Temperature at 1.8 MPa | 138 Â°C | 280 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/ Af |

| (264 psi)<br>Thermal Properties | Metric             | English              | Comments              |
|---------------------------------|--------------------|----------------------|-----------------------|
|                                 | 137 Å°C            | 279 Å°F              | unannealed; ASTM D648 |
|                                 | @Thickness 3.20 mm | @Thickness 0.126 in  |                       |
| Flammability, UL94              | V-0                | V-0                  | UL 94 by SABIC-IP     |
|                                 | @Thickness 1.60 mm | @Thickness 0.0630 in |                       |

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