

## SABIC Innovative Plastics LNP THERMOCOMP EC002XXQ PEI

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

LNP\* THERMOCOMP\* EC002XXQ is a compound based on Polyetherimide containing 10% Carbon Fiber. Added feature of this material is:  
Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC002XXQ-PEI.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-EC002XXQ-PEI.php)

| Physical Properties | Metric    | English   | Comments                  |
|---------------------|-----------|-----------|---------------------------|
| Specific Gravity    | 1.30 g/cc | 1.30 g/cc | ASTM D792                 |
| Moisture Absorption | 0.240 %   | 0.240 %   | 50% RH, 24 hrs; ASTM D570 |

| Mechanical Properties     | Metric     | English       | Comments                          |
|---------------------------|------------|---------------|-----------------------------------|
| Tensile Strength at Break | 197 MPa    | 28600 psi     | Type I, 5 mm/min; ASTM D638       |
| Elongation at Break       | 2.4 %      | 2.4 %         | Type I, 5 mm/min; ASTM D638       |
| Tensile Modulus           | 11.22 GPa  | 1627 ksi      | 5 mm/min; ASTM D638               |
| Flexural Strength         | 268 MPa    | 38900 psi     | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus          | 9.66 GPa   | 1400 ksi      | 1.3 mm/min, 50 mm span; ASTM D790 |
| Poissons Ratio            | 0.44       | 0.44          | ASTM E 132                        |
| Izod Impact, Notched      | 0.690 J/cm | 1.29 ft-lb/in | ASTM D256                         |
| Izod Impact, Unnotched    | 5.24 J/cm  | 9.82 ft-lb/in | ASTM D4812                        |

| Thermal Properties                          | Metric                        | English                        | Comments              |
|---------------------------------------------|-------------------------------|--------------------------------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 213 Â°C<br>@Thickness 3.20 mm | 415 Â°F<br>@Thickness 0.126 in | unannealed; ASTM D648 |

| Electrical Properties | Metric              | English             | Comments  |
|-----------------------|---------------------|---------------------|-----------|
| Surface Resistance    | 1e+05 - 1.00e+6 ohm | 1e+05 - 1.00e+6 ohm | ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

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