

## SABIC Innovative Plastics LNP STAT-KON ME006 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP STAT-KON\* ME006 is a compound based on Polypropylene resin containing 30% Carbon Fiber. Added features of this material include:  
Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-ME006-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-ME006-PP.php)

| Physical Properties               | Metric                | English                   | Comments                  |
|-----------------------------------|-----------------------|---------------------------|---------------------------|
| Density                           | 1.06 g/cc             | 0.0383 lb/in <sup>3</sup> | ASTM D792                 |
|                                   | 1.06 g/cc             | 0.0383 lb/in <sup>3</sup> | ISO 1183                  |
| Moisture Absorption               | 0.0300 %              | 0.0300 %                  | 50% RH, 24 hrs; ASTM D570 |
|                                   | 0.0300 %              | 0.0300 %                  | 23°C / 50% RH; ISO 62     |
| Linear Mold Shrinkage, Flow       | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in     | ASTM D955                 |
|                                   | @Time 86400 sec       | @Time 24.0 hour           |                           |
| Linear Mold Shrinkage, Transverse | 0.0070 - 0.0090 cm/cm | 0.0070 - 0.0090 in/in     | ASTM D955                 |
|                                   | @Time 86400 sec       | @Time 24.0 hour           |                           |

| Mechanical Properties     | Metric    | English   | Comments                          |
|---------------------------|-----------|-----------|-----------------------------------|
| Tensile Strength at Break | 55.0 MPa  | 7980 psi  | 5 mm/min; ISO 527                 |
|                           | 57.0 MPa  | 8270 psi  | Type I, 5 mm/min; ASTM D638       |
| Tensile Strength, Yield   | 56.0 MPa  | 8120 psi  | 5 mm/min; ISO 527                 |
|                           | 58.0 MPa  | 8410 psi  | Type I, 5 mm/min; ASTM D638       |
| Elongation at Break       | 0.40 %    | 0.40 %    | 5 mm/min; ISO 527                 |
|                           | 0.50 %    | 0.50 %    | Type I, 5 mm/min; ASTM D638       |
| Elongation at Yield       | 0.40 %    | 0.40 %    | 5 mm/min; ISO 527                 |
|                           | 0.50 %    | 0.50 %    | Type I, 5 mm/min; ASTM D638       |
| Tensile Modulus           | 13.99 GPa | 2029 ksi  | 1 mm/min; ISO 527                 |
|                           | 17.34 GPa | 2515 ksi  | 50 mm/min; ASTM D638              |
| Flexural Strength         | 58.0 MPa  | 8410 psi  | ISO 178                           |
| Flexural Yield Strength   | 78.0 MPa  | 11300 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Mechanical Properties        | Metric                         | English                            | Comments                          |
|------------------------------|--------------------------------|------------------------------------|-----------------------------------|
| Flexural Modulus             | 12.3 GPa                       | 1788 ksi                           | 1.3 mm/min, 50 mm span; ASTM D790 |
|                              | 12.33 GPa                      | 1788 ksi                           | 2 mm/min; ISO 178                 |
| Izod Impact, Notched         | 0.410 J/cm                     | 0.768 ft-lb/in                     | ASTM D256                         |
| Izod Impact, Unnotched       | 0.820 J/cm                     | 1.54 ft-lb/in                      | ASTM D4812                        |
| Izod Impact, Notched (ISO)   | 4.00 kJ/m <sup>2</sup>         | 1.90 ft-lb/in <sup>2</sup>         | 80*10*4; ISO 180/1A               |
| Izod Impact, Unnotched (ISO) | 4.00 kJ/m <sup>2</sup>         | 1.90 ft-lb/in <sup>2</sup>         | 80*10*4; ISO 180/1U               |
| Dart Drop, Total Energy      | 10.0 J<br>@Temperature 23.0 °C | 7.38 ft-lb<br>@Temperature 73.4 °F | 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               | 23.3 µm/m-°C<br>@Temperature -30.0 - 30.0 °C | 12.9 µin/in-°F<br>@Temperature -22.0 - 86.0 °F | ASTM D696                        |
| CTE, linear, Transverse to Flow             | 59.1 µm/m-°C<br>@Temperature -30.0 - 30.0 °C | 32.8 µin/in-°F<br>@Temperature -22.0 - 86.0 °F | ASTM D696                        |
| Deflection Temperature at 0.46 MPa (66 psi) | 153 °C                                       | 307 °F                                         | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
|                                             | 153 °C<br>@Thickness 3.20 mm                 | 307 °F<br>@Thickness 0.126 in                  | unannealed; ASTM D648            |
| Deflection Temperature at 1.8 MPa (264 psi) | 125 °C                                       | 257 °F                                         | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                             | 132 °C<br>@Thickness 3.20 mm                 | 270 °F<br>@Thickness 0.126 in                  | unannealed; ASTM D648            |

| Electrical Properties | Metric        | English       | Comments  |
|-----------------------|---------------|---------------|-----------|
| Surface Resistance    | 1.0 - 3.0 ohm | 1.0 - 3.0 ohm | ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

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