

## SABIC Innovative Plastics LNP STAT-KON MS000IL PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* STAT-KON\* MS000IL is a compound based on Polypropylene resin containing Stainless Steel. Added features of this material include: High Impact, Low Extractible, Electrically Conductive, food contact compliant raw materials and metal detectable.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-MS000IL-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MS000IL-PP.php)

| Physical Properties               | Metric          | English                   | Comments  |
|-----------------------------------|-----------------|---------------------------|-----------|
| Density                           | 0.960 g/cc      | 0.0347 lb/in <sup>3</sup> | ASTM D792 |
|                                   | 0.960 g/cc      | 0.0347 lb/in <sup>3</sup> | ISO 1183  |
| Linear Mold Shrinkage, Flow       | 0.0129 cm/cm    | 0.0129 in/in              | ISO 294   |
|                                   | @Time 86400 sec | @Time 24.0 hour           |           |
|                                   | 0.013 cm/cm     | 0.013 in/in               | ASTM D955 |
|                                   | @Time 86400 sec | @Time 24.0 hour           |           |
| Linear Mold Shrinkage, Transverse | 0.0138 cm/cm    | 0.0138 in/in              | ISO 294   |
|                                   | @Time 86400 sec | @Time 24.0 hour           |           |
|                                   | 0.014 cm/cm     | 0.014 in/in               | ASTM D955 |
|                                   | @Time 86400 sec | @Time 24.0 hour           |           |

| Mechanical Properties     | Metric   | English  | Comments             |
|---------------------------|----------|----------|----------------------|
| Tensile Strength at Break | 15.0 MPa | 2180 psi | ASTM D638            |
|                           | 16.0 MPa | 2320 psi | ISO 527              |
| Tensile Strength, Yield   | 20.0 MPa | 2900 psi | ISO 527              |
|                           | 21.0 MPa | 3050 psi | ASTM D638            |
| Elongation at Break       | 38.9 %   | 38.9 %   | ISO 527              |
|                           | 76 %     | 76 %     | ASTM D638            |
| Elongation at Yield       | 5.6 %    | 5.6 %    | ISO 527              |
|                           | 7.1 %    | 7.1 %    | ASTM D638            |
| Tensile Modulus           | 1.17 GPa | 170 ksi  | 1 mm/min; ISO 527    |
|                           | 1.26 GPa | 183 ksi  | 50 mm/min; ASTM D638 |

| Flexural Strength<br>Mechanical Properties | 24.0 MPa<br>Metric     | 3480 psi<br>English        | ISO 178<br>Comments                              |
|--------------------------------------------|------------------------|----------------------------|--------------------------------------------------|
|                                            | 27.0 MPa               | 3920 psi                   | ASTM D790                                        |
| Flexural Modulus                           | 1.18 GPa               | 171 ksi                    | ISO 178                                          |
|                                            | 1.27 GPa               | 184 ksi                    | ASTM D790                                        |
| Izod Impact, Notched                       | 0.960 J/cm             | 1.80 ft-lb/in              | ASTM D256                                        |
| Izod Impact, Unnotched                     | 13.29 J/cm             | 24.90 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)               | NB                     | NB                         | 80*10*4; ISO 180/1U                              |
| Dart Drop, Total Energy                    | 10.0 J                 | 7.38 ft-lb                 | Instrumented Impact Energy @ peak;<br>ASTM D3763 |
| Impact Test                                | 9.00 J                 | 6.64 ft-lb                 | Multiaxial Impact; ISO 6603                      |

| Thermal Properties                             | Metric                                          | English                                          | Comments                         |
|------------------------------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow                  | 99.0 µm/m-°C<br>@Temperature -40.0 -<br>40.0 °C | 55.0 µin/in-°F<br>@Temperature -40.0 -<br>104 °F | ASTM E 831                       |
|                                                | 101 µm/m-°C<br>@Temperature -40.0 -<br>40.0 °C  | 56.1 µin/in-°F<br>@Temperature -40.0 -<br>104 °F | ISO 11359-2                      |
| CTE, linear, Transverse to Flow                | 117 µm/m-°C<br>@Temperature -40.0 -<br>40.0 °C  | 65.0 µin/in-°F<br>@Temperature -40.0 -<br>104 °F | ASTM E 831                       |
|                                                | 117 µm/m-°C<br>@Temperature -40.0 -<br>40.0 °C  | 65.0 µin/in-°F<br>@Temperature -40.0 -<br>104 °F | ISO 11359-2                      |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 52.0 °C                                         | 126 °F                                           | Flatw 80*10*4 sp=64mm; ISO 75/Af |
|                                                | 52.0 °C<br>@Thickness 3.20 mm                   | 126 °F<br>@Thickness 0.126 in                    | unannealed; ASTM D648            |

| Electrical Properties | Metric            | English           | Comments  |
|-----------------------|-------------------|-------------------|-----------|
| Surface Resistance    | 100 - 1.00e+6 ohm | 100 - 1.00e+6 ohm | ASTM D257 |

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