

## SABIC Innovative Plastics LNP STAT-KON DEL339XF PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* Stat-kon\* DEL339XF is a compound based on Polycarbonate resin containing PTFE, Flame Retardant, Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Internally Lubricated.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL339XF-PC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL339XF-PC-Asia-Pacific.php)

| Physical Properties               | Metric                | English                   | Comments                  |
|-----------------------------------|-----------------------|---------------------------|---------------------------|
| Density                           | 1.38 g/cc             | 0.0499 lb/in <sup>3</sup> | ISO 1183                  |
|                                   | 1.39 g/cc             | 0.0502 lb/in <sup>3</sup> | ASTM D792                 |
| Moisture Absorption               | 0.100 %               | 0.100 %                   | 50% RH, 24 hrs; ASTM D570 |
| 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           |                           |
|                                   | 0.0031 cm/cm          | 0.0031 in/in              | ISO 294                   |
|                                   | @Time 86400 sec       | @Time 24.0 hour           |                           |
| Linear Mold Shrinkage, Transverse | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in     | ASTM D955                 |
|                                   | @Time 86400 sec       | @Time 24.0 hour           |                           |
|                                   | 0.0040 cm/cm          | 0.0040 in/in              | ISO 294                   |
|                                   | @Time 86400 sec       | @Time 24.0 hour           |                           |

| Mechanical Properties     | Metric    | English   | Comments             |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 112 MPa   | 16200 psi | ISO 527              |
|                           | 114 MPa   | 16500 psi | ASTM D638            |
| Tensile Strength, Yield   | 112 MPa   | 16200 psi | ISO 527              |
|                           | 114 MPa   | 16500 psi | ASTM D638            |
| Elongation at Break       | 1.6 %     | 1.6 %     | ISO 527              |
|                           | 1.8 %     | 1.8 %     | ASTM D638            |
| Elongation at Yield       | 1.6 %     | 1.6 %     | ISO 527              |
|                           | 1.8 %     | 1.8 %     | ASTM D638            |
| Tensile Modulus           | 10.34 GPa | 1500 ksi  | 50 mm/min; ASTM D638 |

| Mechanical Properties        | 10.95 GPa<br>Metric | 1588 ksi<br>English | 1 mm/min* ISO 527<br>Comments                    |
|------------------------------|---------------------|---------------------|--------------------------------------------------|
| Flexural Strength            | 164 MPa             | 23800 psi           | ISO 178                                          |
|                              | 179 MPa             | 26000 psi           | ASTM D790                                        |
| Flexural Modulus             | 8.96 GPa            | 1300 ksi            | ASTM D790                                        |
|                              | 9.50 GPa            | 1380 ksi            | ISO 178                                          |
| Izod Impact, Notched         | 0.580 J/cm          | 1.09 ft-lb/in       | ASTM D256                                        |
| Izod Impact, Unnotched       | 3.57 J/cm           | 6.69 ft-lb/in       | ASTM D4812                                       |
| Izod Impact, Notched (ISO)   | 5.00 kJ/mÂ²         | 2.38 ft-lb/inÂ²     | 80*10*4; ISO 180/1A                              |
| Izod Impact, Unnotched (ISO) | 24.0 kJ/mÂ²         | 11.4 ft-lb/inÂ²     | 80*10*4; ISO 180/1U                              |
| Dart Drop, Total Energy      | 12.0 J              | 8.85 ft-lb          | Instrumented Impact Energy @ peak;<br>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                  | 62.0 Âµm/m-Â°C<br>@Temperature -40.0 -<br>40.0 Â°C | 34.4 Âµin/in-Â°F<br>@Temperature -40.0 -<br>104 Â°F | ISO 11359-2                       |
|                                                | 63.0 Âµm/m-Â°C<br>@Temperature -40.0 -<br>40.0 Â°C | 35.0 Âµin/in-Â°F<br>@Temperature -40.0 -<br>104 Â°F | ASTM E 831                        |
| CTE, linear, Transverse to Flow                | 14.0 Âµm/m-Â°C<br>@Temperature -40.0 -<br>40.0 Â°C | 7.78 Âµin/in-Â°F<br>@Temperature -40.0 -<br>104 Â°F | ISO 11359-2                       |
|                                                | 14.4 Âµm/m-Â°C<br>@Temperature -40.0 -<br>40.0 Â°C | 8.00 Âµin/in-Â°F<br>@Temperature -40.0 -<br>104 Â°F | ASTM E 831                        |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 142 Â°C                                            | 288 Â°F                                             | Flatw 80*10*4 sp=64mm; ISO 75/Bf  |
|                                                | 141 Â°C<br>@Thickness 3.20 mm                      | 286 Â°F<br>@Thickness 0.126 in                      | unannealed; ASTM D648             |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 141 Â°C                                            | 286 Â°F                                             | Flatw 80*10*4 sp=64mm; ISO 75/ Af |
|                                                | 140 Â°C<br>@Thickness 3.20 mm                      | 284 Â°F<br>@Thickness 0.126 in                      | unannealed; ASTM D648             |

| Electrical Properties | Metric                | English               | Comments  |
|-----------------------|-----------------------|-----------------------|-----------|
| Surface Resistance    | 1.00e+7 - 1.00e+9 ohm | 1.00e+7 - 1.00e+9 ohm | ASTM D257 |

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