# LNP™ STAT-KON™ COMPOUND DEL22P

DCL-4022 EP
REGION ASIA

## DESCRIPTION

LNP STAT-KON* DEL22P is a compound based on Polycarbonate resin containing 10% Carbon Fiber, 10% PTFE. Added features of this material include: Electrically Conductive. Exceptional Processing, Wear Resistant.

## TYPICAL PROPERTY VALUES

Revision 20190107

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break | 100 | MPa | ASTM D 638 |
| Tensile Strain, break | 2 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 7900 | MPa | ASTM D 638 |
| Flexural Stress | 152 | MPa | ASTM D 790 |
| Flexural Modulus | 5690 | MPa | ASTM D 790 |
| Tensile Stress, break | 101 | MPa | ISO 527 |
| Tensile Strain, break | 2 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 8170 | MPa | ISO 527 |
| Flexural Modulus | 150 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 283 | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 74 | J/m | ASTM D 256 |
| Instrumented Impact Energy @ peak, 23°C | 13 | J | ASTM D 3763 |
| Multiaxial Impact | 102 | J | ISO 6603 |
| Izod Impact, unnotched 80*10*4 +23°C | 34 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 6 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 134 | °C | ASTM D 648 |
| CTE, -40°C to 40°C, flow | 1.4E-05 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, xflow | 7.6E-05 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, flow | 1.5E-05 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 7.6E-05 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 143 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Density | 1.3 | g/cm³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.1 | % | ASTM D 570 |
| Mold Shrinkage, flow, 0.75-2.3 mm | 0.1 – 0.3 | % | SABIC method |
| Mold Shrinkage, flow | 0.1 – 0.3 | % | SABIC method |
| Mold Shrinkage, xflow, 0.75-2.3 mm | 0.4 – 0.6 | % | SABIC method |
| Mold Shrinkage, xflow | 0.4 – 0.6 | % | SABIC method |
| Wear Factor Washer | 15 | 10^-10 in^5-min/ft-lb-hr | ASTM D 3702 Modified: Manual |
| Dynamic COF | 0.55 | - | ASTM D 3702 Modified: Manual |
| Static COF | 0.52 | - | ASTM D 3702 Modified: Manual |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **Density** | 1.3 | g/cm³ | ISO 1183 |
| **Moisture Absorption (23°C / 50% RH)** | 0.18 | % | ISO 62 |
| **ELECTRICAL** | | | |
| **Volume Resistivity** | 1.E+02 | Ohm-cm | IEC 60093 |
| **Surface Resistivity, ROA** | 1.E+02 – 1.E+06 | Ohm | IEC 60093 |

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