# LNP™ STAT-KON™ COMPOUND QD000I

Q-HI
REGION ASIA

## DESCRIPTION

LNP STAT-KON QD000I is a compound based on Nylon 6/10 resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

## TYPICAL PROPERTY VALUES

Revision 20181224

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break | 31 | MPa | ASTM D 638 |
| Tensile Strain, break | 52.7 | % | ASTM D 638 |
| Flexural Stress | 54 | MPa | ASTM D 790 |
| Flexural Modulus | 1720 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 603 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 55 | °C | ASTM D 648 |
| CTE, -40°C to 40°C, flow | 1.17E-04 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, xflow | 1.17E-04 | 1/°C | ASTM E 831 |
| PHYSICAL | | | |
| Density | 1.11 | g/cm³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.28 | % | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs | 0.1 – 0.3 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 0.2 – 0.4 | % | ASTM D 955 |
| ELECTRICAL | | | |
| Volume Resistivity | 100 – 10000 | Ohm-cm | ASTM D 257 |
| Surface Resistivity | 1.E+02 – 1.E+04 | Ohm | ASTM D 257 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.12 – 0.2 | % | |
| Melt Temperature | 270 – 275 | °C | |
| Front - Zone 3 Temperature | 270 – 280 | °C | |
| Middle - Zone 2 Temperature | 260 – 270 | °C | |
| Rear - Zone 1 Temperature | 250 – 260 | °C | |
| Mold Temperature | 80 – 95 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

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