



## LNP™ STAT-KON™ Compound QD000I

### Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound Q-HI

Product reorder name: QD000I

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 PROPERTIES <sup>1</sup>     | TYPICAL VALUE   | Unit                | Standard   |
|-------------------------------------|-----------------|---------------------|------------|
| <b>MECHANICAL</b>                   |                 |                     |            |
| Tensile Stress, break               | 320             | kgf/cm <sup>2</sup> | ASTM D 638 |
| Tensile Strain, break               | 52.7            | %                   | ASTM D 638 |
| Flexural Stress                     | 550             | kgf/cm <sup>2</sup> | ASTM D 790 |
| Flexural Modulus                    | 17500           | kgf/cm <sup>2</sup> | ASTM D 790 |
| <b>IMPACT</b>                       |                 |                     |            |
| Izod Impact, notched, 23°C          | 61              | cm-kgf/cm           | ASTM D 256 |
| <b>THERMAL</b>                      |                 |                     |            |
| 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 |
| <b>PHYSICAL</b>                     |                 |                     |            |
| Density                             | 1.11            | g/cm <sup>3</sup>   | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.28            | %                   | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs (5)    | 0.1 - 0.3       | %                   | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5)   | 0.2 - 0.4       | %                   | ASTM D 955 |
| Mold Shrinkage, flow, 24 hrs (5)    | 1 - 3           | %                   | ISO 294    |
| Mold Shrinkage, xflow, 24 hrs (5)   | 1 - 3           | %                   | ISO 294    |
| <b>ELECTRICAL</b>                   |                 |                     |            |
| Volume Resistivity                  | 1.E+02 - 1.E+04 | Ohm-cm              | ASTM D 257 |
| Surface Resistivity                 | 1.E+02 - 1.E+04 | Ohm                 | ASTM D 257 |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| 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  |