



## LNP™ STAT-KON™ Compound RFD02

### Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound RF

Product reorder name: RFD02

LNP STAT-KON RFD02 is a compound based on Nylon 66 resin containing 10% Glass Fiber. Added features of this material include: Electrically Conductive.

| TYPICAL PROPERTIES <sup>1</sup>        | TYPICAL VALUE | Unit                | Standard    |
|----------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                      |               |                     |             |
| Tensile Stress, break                  | 790           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, break                  | 5.5           | %                   | ASTM D 638  |
| Tensile Modulus, 50 mm/min             | 84300         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress                        | 1330          | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus                       | 56200         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, break                  | 74            | MPa                 | ISO 527     |
| Tensile Strain, break                  | 5.1           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min              | 7400          | MPa                 | ISO 527     |
| Flexural Stress                        | 139           | MPa                 | ISO 178     |
| Flexural Modulus                       | 6300          | MPa                 | ISO 178     |
| <b>IMPACT</b>                          |               |                     |             |
| Izod Impact, unnotched, 23°C           | 21            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C             | 3             | cm-kgf/cm           | ASTM D 256  |
| Izod Impact, unnotched 80*10*4 +23°C   | 14            | kJ/m <sup>2</sup>   | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C     | 3             | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                         |               |                     |             |
| HDT, 0.45 MPa, 3.2 mm, unannealed      | 252           | °C                  | ASTM D 648  |
| HDT, 1.82 MPa, 3.2mm, unannealed       | 236           | °C                  | ASTM D 648  |
| CTE, -40°C to 40°C, flow               | 6.84E-05      | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, xflow              | 4.68E-05      | 1/°C                | ASTM E 831  |
| CTE, -40°C to 40°C, flow               | 6.9E-05       | 1/°C                | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow              | 4.8E-05       | 1/°C                | ISO 11359-2 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 256           | °C                  | ISO 75/Bf   |



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| TYPICAL PROPERTIES <sup>1</sup>       | TYPICAL VALUE   | Unit              | Standard   |
|---------------------------------------|-----------------|-------------------|------------|
| <b>THERMAL</b>                        |                 |                   |            |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 239             | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                       |                 |                   |            |
| Density                               | 1.3             | g/cm <sup>3</sup> | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs   | 0.5             | %                 | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs (5)      | 1 - 1.2         | %                 | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5)     | 1.4 - 1.6       | %                 | ASTM D 955 |
| Mold Shrinkage, flow, 24 hrs (5)      | 1.1             | %                 | ISO 294    |
| Mold Shrinkage, xflow, 24 hrs (5)     | 1.5             | %                 | ISO 294    |
| Density                               | 1.3             | g/cm <sup>3</sup> | ISO 1183   |
| <b>ELECTRICAL</b>                     |                 |                   |            |
| Surface Resistivity                   | 1.E+02 - 1.E+05 | 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    | 0.15 - 0.25   | %    |
| Melt Temperature            | 280 - 305     | °C   |
| Front - Zone 3 Temperature  | 295 - 305     | °C   |
| Middle - Zone 2 Temperature | 280 - 295     | °C   |
| Rear - Zone 1 Temperature   | 265 - 275     | °C   |
| Mold Temperature            | 95 - 110      | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |