# LNP™ STAT-KON™ Compound RFD03

RF-15
REGION ASIA

## DESCRIPTION

LNP STAT-KON RFD03 compound is based on Nylon 6/6 resin containing conductive carbon powder and 15% glass fiber. Added features of this grade include: Electrically Conductive.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Electrically Conductive, High stiffness/Strength, No PFAS intentionally added |
| **Fillers** | Carbon Powder, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine) |
| **Polymer Types** | Polyamide 66 (Nylon 66) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Electrical and Electronics | Electronic Components |
| Industrial | Material Handling |

## TYPICAL PROPERTY VALUES

Revision 20260205

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **MECHANICAL** [1] | | | |
| **Tensile Stress, break, 5 mm/min** | 90 | MPa | ISO 527 |
| **Tensile Strain, break, 5 mm/min** | 1.2 | % | ISO 527 |
| **Flexural Stress, break, 2 mm/min** | 150 | MPa | ISO 178 |
| **Flexural Modulus, 2 mm/min** | 6600 | MPa | ISO 178 |
| **IMPACT** [1] | | | |
| **Izod Impact, unnotched 80*10*4 +23°C** | 20 | kJ/m² | ISO 180/1U |
| **Izod Impact, notched 80*10*4 +23°C** | 5 | kJ/m² | ISO 180/1A |
| **THERMAL** [1] | | | |
| **CTE, 23°C to 60°C, flow** | 4.4E-05 | 1/°C | ISO 11359-2 |
| **CTE, 23°C to 60°C, xflow** | 8.3E-05 | 1/°C | ISO 11359-2 |
| **HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm** | >220 | °C | ISO 75/Bf |
| **HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm** | 245 | °C | ISO 75/Af |
| **PHYSICAL** [1] | | | |
| **Mold Shrinkage, flow** [2] | 0.4 – 0.7 | % | SABIC method |
| **Density** | 1.34 | g/cm³ | ISO 1183 |
| **ELECTRICAL** [1] | | | |
| **Surface Resistivity** [3] | 1.E+01 – 1.E+05 | Ω | ASTM D257 |
| **INJECTION MOLDING** [4] | | | |
| **Drying Temperature** | 80 | °C | |
| **Drying Time** | 4 | Hrs | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| 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 | |

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Measurement meets requirements as specified in ASTM D4496.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

## MORE INFORMATION

For curve data and CAE cards, please visit and register at https://materialfinder.sabic-specialties.com

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