# LNP™ STAT-KON™ COMPOUND AE002

AC-1002
REGION EUROPE

## DESCRIPTION

LNP STAT-KON AE002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% carbon fiber. Added features of this grade include: Electrically Conductive.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Electrically Conductive, Carbon fiber filled, High stiffness/Strength, No PFAS intentionally added |
| **Fillers** | Carbon Fiber |
| **Polymer Types** | Acrylonitrile Butadiene Styrene (ABS) |
| **Processing Techniques** | Injection Molding |

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

## TYPICAL PROPERTY VALUES

Revision 20260203

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **MECHANICAL** [1] | | | |
| **Tensile Stress, break, 5 mm/min** | 82 | MPa | ISO 527 |
| **Tensile Strain, break, 5 mm/min** | 1.4 | % | ISO 527 |
| **Tensile Modulus, 1 mm/min** | 7400 | MPa | ISO 527 |
| **IMPACT** [1] | | | |
| **Izod Impact, unnotched 80*10*4 +23°C** | 15 | 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** | 2.3E-05 | 1/°C | ISO 11359-2 |
| **CTE, 23°C to 60°C, xflow** | 7.7E-05 | 1/°C | ISO 11359-2 |
| **HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm** | 105 | °C | ISO 75/Bf |
| **HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm** | 101 | °C | ISO 75/Af |
| **PHYSICAL** [1] | | | |
| **Density** | 1.16 | g/cm³ | ISO 1183 |
| **ELECTRICAL** [1] | | | |
| **Surface Resistivity** [2] | 1.E+01 – 1.E+05 | Ω | ASTM D257 |
| **INJECTION MOLDING** [3] | | | |
| **Drying Temperature** | 80 | °C | |
| **Drying Time** | 4 | Hrs | |
| **Maximum Moisture Content** | 0.05 – 0.1 | % | |
| **Melt Temperature** | 260 | °C | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **Front - Zone 3 Temperature** | 265 – 275 | °C | |
| **Middle - Zone 2 Temperature** | 230 – 245 | °C | |
| **Rear - Zone 1 Temperature** | 205 – 215 | °C | |
| **Mold Temperature** | 70 – 80 | °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) Measurement meets requirements as specified in ASTM D4496.

(3) 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.

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