+135-3858-6433 (GuangDong)
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+852-6957-5415 (HongKong)

# LNP™ STAT-KON™ Compound KD000

## Americas: COMMERCIAL

**Also known as: LNP™ STAT-KON™ Compound K-**
**Product reorder name: KD000**

LNP STAT-KON KD000 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

| TYPICAL PROPERTIES[1] | TYPICAL VALUE | Unit | Standard |
|---|---|---|---|
| **MECHANICAL** | | | |
| Tensile Stress, yield | 590 | kgf/cm² | ASTM D 638 |
| Tensile Stress, break | 550 | kgf/cm² | ASTM D 638 |
| Tensile Strain, yield | 3.6 | % | ASTM D 638 |
| Tensile Strain, break | 7.2 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 35600 | kgf/cm² | ASTM D 638 |
| Flexural Stress | 960 | kgf/cm² | ASTM D 790 |
| Flexural Modulus | 33100 | kgf/cm² | ASTM D 790 |
| Tensile Stress, yield | 53 | MPa | ISO 527 |
| Tensile Stress, break | 47 | MPa | ISO 527 |
| Tensile Strain, yield | 5 | % | ISO 527 |
| Tensile Strain, break | 20 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 3000 | MPa | ISO 527 |
| Flexural Stress | 82 | MPa | ISO 178 |
| Flexural Modulus | 3200 | MPa | ISO 178 |
| **IMPACT** | | | |
| Izod Impact, unnotched, 23°C | 81 | cm-kgf/cm | ASTM D 4812 |
| Izod Impact, notched, 23°C | 3 | cm-kgf/cm | ASTM D 256 |
| Instrumented Impact Energy @ peak, 23°C | 50 | cm-kgf | ASTM D 3763 |
| Multiaxial Impact | 15 | cm-kgf | ISO 6603 |
| Izod Impact, unnotched 80*10*4 +23°C | 37 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 5 | kJ/m² | ISO 180/1A |
| **THERMAL** | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 108 | °C | ASTM D 648 |

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| TYPICAL PROPERTIES[1] | TYPICAL VALUE | Unit | Standard |
|---|---|---|---|
| **THERMAL** | | | |
| CTE, -40°C to 40°C, flow | 1.01E-04 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, xflow | 1.01E-04 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, flow | 1.02E-04 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 1.01E-04 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 105 | °C | ISO 75/Af |
| **PHYSICAL** | | | |
| Density | 1.45 | g/cm³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.28 | % | ASTM D 570 |
| Mold shrinkage, flow (mold temp=60°C) | 1.2 - 1.3 | % | SABIC Method |
| Mold shrinkage, flow (mold temp=100°C) | 1.5 - 1.6 | % | SABIC Method |
| Mold Shrinkage, flow, 24 hrs (5) | 1.5 - 3.5 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5) | 1.5 - 3.5 | % | ASTM D 955 |
| Mold Shrinkage, flow, 24 hrs (5) | 1.5 - 3.5 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs (5) | 1.5 - 3.5 | % | ISO 294 |
| Mold shrinkage, xflow (mold temp=60°C) | 0.9 - 1 | % | SABIC Method |
| Mold shrinkage, xflow (mold temp=100°C) | 1.1 - 1.2 | % | SABIC Method |
| Density | 1.45 | g/cm³ | ISO 1183 |
| Moisture Absorption (23°C / 50% RH) | 0.33 | % | ISO 62 |
| **ELECTRICAL** | | | |
| Surface Resistivity | 1.E+02 - 1.E+04 | Ohm | ASTM D 257 |
| **FLAME CHARACTERISTICS** | | | |
| UL Recognized, 94HB Flame Class Rating (3) | 0.7 | mm | UL 94 |

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| PROCESSING PARAMETERS | TYPICAL VALUE | Unit |
|---|---|---|
| **Injection Molding** | | |
| Drying Temperature | 80 | °C |
| Drying Time | 4 | hrs |
| Melt Temperature | 200 - 215 | °C |
| Front - Zone 3 Temperature | 210 - 220 | °C |
| Middle - Zone 2 Temperature | 195 - 205 | °C |
| Rear - Zone 1 Temperature | 175 - 190 | °C |
| Mold Temperature | 80 - 110 | °C |
| Back Pressure | 0.2 - 0.3 | MPa |
| Screw Speed | 30 - 60 | rpm |