



## LNP™ STAT-KON™ Compound MD000AP

### Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound MD000AP

Product reorder name: MD000AP

LNP STAT-KON MD000AP is a compound based on Polypropylene containing Carbon Powder. Added features of this grade include: Electrically Conductive, Exceptional Processing.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                | Standard    |
|----------------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                            |               |                     |             |
| Tensile Stress, brk, Type I, 5 mm/min        | 240           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, brk, Type I, 5 mm/min        | 2.6           | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                    | 20200         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 390           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 16000         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, break, 5 mm/min              | 22            | MPa                 | ISO 527     |
| Tensile Strain, break, 5 mm/min              | 2.3           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                    | 1780          | MPa                 | ISO 527     |
| Flexural Stress                              | 39            | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min                   | 1660          | MPa                 | ISO 178     |
| <b>IMPACT</b>                                |               |                     |             |
| Izod Impact, unnotched, 23°C                 | 68            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C                   | 3             | cm-kgf/cm           | ASTM D 256  |
| Multiaxial Impact                            | 112           | cm-kgf              | ISO 6603    |
| Instrumented Impact Total Energy, 23°C       | 152           | cm-kgf              | ASTM D 3763 |
| Izod Impact, unnotched 80*10*4 +23°C         | 38            | 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            | 109           | °C                  | ASTM D 648  |
| HDT, 1.82 MPa, 3.2mm, unannealed             | 60            | °C                  | ASTM D 648  |
| CTE, -30°C to 30°C, flow                     | 8.9E-05       | 1/°C                | ASTM D 696  |
| CTE, -30°C to 30°C, xflow                    | 9.E-05        | 1/°C                | ASTM D 696  |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm       | 88            | °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 | 58            | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                       |               |                   |            |
| Specific Gravity                      | 1.01          | -                 | ASTM D 792 |
| Density                               | 1.012         | g/cm <sup>3</sup> | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs   | 0.02          | %                 | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs (5)      | 1.4           | %                 | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5)     | 1.6           | %                 | ASTM D 955 |
| Moisture Absorption (23°C / 50% RH)   | 0.02          | %                 | ISO 62     |
| <b>ELECTRICAL</b>                     |               |                   |            |
| Surface Resistivity                   | 1.E+02        | 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  |
| Melt Temperature            | 225 - 250     | °C   |
| Front - Zone 3 Temperature  | 240 - 250     | °C   |
| Middle - Zone 2 Temperature | 215 - 225     | °C   |
| Rear - Zone 1 Temperature   | 195 - 205     | °C   |
| Mold Temperature            | 30 - 50       | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |

