



## LNP™ STAT-LOY™ Compound K3000SZ

### Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound K-E HS

Product reorder name: K3000SZ

LNP STAT-LOY K3000SZ is a compound based on Acetal Copolymer resin. Added feature of this material is: AntiStatic.

| TYPICAL PROPERTIES <sup>1</sup>         | TYPICAL VALUE | Unit                | Standard    |
|-----------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                       |               |                     |             |
| Tensile Stress, yield                   | 420           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, break                   | 320           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yield                   | 15.8          | %                   | ASTM D 638  |
| Tensile Strain, break                   | 59.5          | %                   | ASTM D 638  |
| Tensile Modulus, 50 mm/min              | 16300         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress                         | 490           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus                        | 14600         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield                   | 42            | MPa                 | ISO 527     |
| Tensile Stress, break                   | 36            | MPa                 | ISO 527     |
| Tensile Strain, yield                   | 13.3          | %                   | ISO 527     |
| Tensile Strain, break                   | 49.3          | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min               | 1500          | MPa                 | ISO 527     |
| Flexural Stress                         | 40            | MPa                 | ISO 178     |
| Flexural Modulus                        | 1500          | MPa                 | ISO 178     |
| <b>IMPACT</b>                           |               |                     |             |
| Izod Impact, unnotched, 23°C            | NB            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C              | 15            | cm-kgf/cm           | ASTM D 256  |
| Instrumented Impact Energy @ peak, 23°C | 295           | cm-kgf              | ASTM D 3763 |
| Multiaxial Impact                       | 173           | cm-kgf              | ISO 6603    |
| Izod Impact, unnotched 80*10*4 +23°C    | NB            | kJ/m <sup>2</sup>   | ISO 180/1U  |
| Izod Impact, notched 80*10*4 +23°C      | 15            | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                          |               |                     |             |
| HDT, 0.45 MPa, 3.2 mm, unannealed       | 146           | °C                  | ASTM D 648  |



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|-------------------------------------|-----------------|-------------------------------------------------|----------------------|
| <b>THERMAL</b>                      |                 |                                                 |                      |
| HDT, 1.82 MPa, 3.2mm, unannealed    | 67              | °C                                              | ASTM D 648           |
| CTE, -40°C to 40°C, flow            | 1.3E-04         | 1/°C                                            | ASTM E 831           |
| CTE, -40°C to 40°C, xflow           | 1.33E-04        | 1/°C                                            | ASTM E 831           |
| CTE, -40°C to 40°C, flow            | 1.3E-04         | 1/°C                                            | ISO 11359-2          |
| CTE, -40°C to 40°C, xflow           | 1.33E-04        | 1/°C                                            | ISO 11359-2          |
| <b>PHYSICAL</b>                     |                 |                                                 |                      |
| Density                             | 1.32            | g/cm <sup>3</sup>                               | ASTM D 792           |
| Moisture Absorption, 50% RH, 24 hrs | 2.2             | %                                               | ASTM D 570           |
| Mold Shrinkage, flow, 24 hrs (5)    | 1.8             | %                                               | ASTM D 955           |
| Mold Shrinkage, xflow, 24 hrs (5)   | 1.8             | %                                               | ASTM D 955           |
| Mold Shrinkage, flow, 24 hrs (5)    | 1.81            | %                                               | ISO 294              |
| Mold Shrinkage, xflow, 24 hrs (5)   | 1.83            | %                                               | ISO 294              |
| Wear Factor Washer                  | 14              | 10 <sup>-10</sup> in <sup>5</sup> -min/ft-lb-hr | ASTM D 3702 Modified |
| Dynamic COF                         | 0.42            | -                                               | ASTM D 3702 Modified |
| Static COF                          | 0.24            | -                                               | ASTM D 3702 Modified |
| Density                             | 1.33            | g/cm <sup>3</sup>                               | ISO 1183             |
| <b>ELECTRICAL</b>                   |                 |                                                 |                      |
| Surface Resistivity                 | 1.E+09 - 1.E+11 | Ohm                                             | ASTM D 257           |