



## LNP™ STAT-LOY™ Compound YX02589C

### Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound PDX-Y-02589 CCS

Product reorder name: YX02589C

LNP\* STAT-LOY\* YX02589C is a compound based on Polyester Elastomer resin containing proprietary fillers. Added features of this grade include: Antistatic, Clean Compounding System

| TYPICAL PROPERTIES <sup>1</sup>          | TYPICAL VALUE   | Unit                | Standard    |
|------------------------------------------|-----------------|---------------------|-------------|
| <b>MECHANICAL</b>                        |                 |                     |             |
| Tensile Stress, yld, Type I, 5 mm/min    | 60              | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 5 mm/min    | 71.4            | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                | 300             | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 400             | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 5 mm/min          | 6               | MPa                 | ISO 527     |
| Tensile Strain, yield, 5 mm/min          | 161.7           | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                | 40              | MPa                 | ISO 527     |
| Flexural Stress                          | 2               | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min               | 40              | MPa                 | ISO 178     |
| <b>IMPACT</b>                            |                 |                     |             |
| Multiaxial Impact                        | 254             | cm-kgf              | ISO 6603    |
| Instrumented Impact Total Energy, 23°C   | 184             | cm-kgf              | ASTM D 3763 |
| <b>THERMAL</b>                           |                 |                     |             |
| CTE, -30°C to 30°C, flow                 | 2.45E-04        | 1/°C                | ASTM D 696  |
| CTE, -30°C to 30°C, xflow                | 2.89E-04        | 1/°C                | ASTM D 696  |
| <b>PHYSICAL</b>                          |                 |                     |             |
| Specific Gravity                         | 1.08            | -                   | ASTM D 792  |
| Density                                  | 1.086           | g/cm <sup>3</sup>   | ASTM D 792  |
| Moisture Absorption, 50% RH, 24 hrs      | 5.5             | %                   | ASTM D 570  |
| Mold Shrinkage, flow, 24 hrs (5)         | 0.61            | %                   | ASTM D 955  |
| Mold Shrinkage, xflow, 24 hrs (5)        | 0.65            | %                   | ASTM D 955  |
| Moisture Absorption (23°C / 50% RH)      | 8.5             | %                   | ISO 62      |
| <b>ELECTRICAL</b>                        |                 |                     |             |
| Surface Resistivity                      | 1.E+10 - 1.E+13 | 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  |
| Maximum Moisture Content    | 0.1           | %    |
| Melt Temperature            | 215 - 240     | °C   |
| Front - Zone 3 Temperature  | 225 - 240     | °C   |
| Middle - Zone 2 Temperature | 205 - 215     | °C   |
| Rear - Zone 1 Temperature   | 180 - 195     | °C   |
| Mold Temperature            | 25 - 55       | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |