



## LNP™ STAT-LOY™ Compound AX11421

### Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound AX11421

Product reorder name: AX11421

LNP STAT-LOY AX11421 is a compound based on ABS resin. Added feature of this material is: Antistatic.

| TYPICAL PROPERTIES <sup>1</sup>              | TYPICAL VALUE | Unit                | Standard    |
|----------------------------------------------|---------------|---------------------|-------------|
| <b>MECHANICAL</b>                            |               |                     |             |
| Tensile Stress, yld, Type I, 5 mm/min        | 300           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Stress, brk, Type I, 5 mm/min        | 210           | kgf/cm <sup>2</sup> | ASTM D 638  |
| Tensile Strain, yld, Type I, 5 mm/min        | 4.7           | %                   | ASTM D 638  |
| Tensile Strain, brk, Type I, 5 mm/min        | 48            | %                   | ASTM D 638  |
| Tensile Modulus, 5 mm/min                    | 14300         | kgf/cm <sup>2</sup> | ASTM D 638  |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 440           | kgf/cm <sup>2</sup> | ASTM D 790  |
| Flexural Modulus, 1.3 mm/min, 50 mm span     | 13700         | kgf/cm <sup>2</sup> | ASTM D 790  |
| Tensile Stress, yield, 5 mm/min              | 30            | MPa                 | ISO 527     |
| Tensile Stress, break, 5 mm/min              | 21            | MPa                 | ISO 527     |
| Tensile Strain, yield, 5 mm/min              | 4.4           | %                   | ISO 527     |
| Tensile Strain, break, 5 mm/min              | 81            | %                   | ISO 527     |
| Tensile Modulus, 1 mm/min                    | 1310          | MPa                 | ISO 527     |
| Flexural Stress                              | 44            | MPa                 | ISO 178     |
| Flexural Modulus, 2 mm/min                   | 1330          | MPa                 | ISO 178     |
| <b>IMPACT</b>                                |               |                     |             |
| Izod Impact, unnotched, 23°C                 | NB            | cm-kgf/cm           | ASTM D 4812 |
| Izod Impact, notched, 23°C                   | 43            | cm-kgf/cm           | ASTM D 256  |
| Multiaxial Impact                            | 203           | cm-kgf              | ISO 6603    |
| Instrumented Impact Total Energy, 23°C       | 295           | cm-kgf              | ASTM D 3763 |
| 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           | 39            | kJ/m <sup>2</sup>   | ISO 180/1A  |
| <b>THERMAL</b>                               |               |                     |             |
| HDT, 0.45 MPa, 3.2 mm, unannealed            | 86            | °C                  | ASTM D 648  |





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|--------------------------------------------|-----------------|-------------------|------------|
| <b>THERMAL</b>                             |                 |                   |            |
| HDT, 1.82 MPa, 3.2mm, unannealed           | 69              | °C                | ASTM D 648 |
| CTE, -30°C to 30°C, flow                   | 1.13E-04        | 1/°C              | ASTM D 696 |
| CTE, -30°C to 30°C, xflow                  | 1.26E-04        | 1/°C              | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm     | 85              | °C                | ISO 75/Bf  |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm      | 67              | °C                | ISO 75/Af  |
| <b>PHYSICAL</b>                            |                 |                   |            |
| Specific Gravity                           | 1.05            | -                 | ASTM D 792 |
| Density                                    | 1.05            | g/cm <sup>3</sup> | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs        | 2               | %                 | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs (5)           | 0.5 - 0.7       | %                 | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs (5)          | 0.7 - 0.9       | %                 | ASTM D 955 |
| Mold Shrinkage, flow, 24 hrs (5)           | 0.5 - 0.7       | %                 | ISO 294    |
| Mold Shrinkage, xflow, 24 hrs (5)          | 0.7 - 0.9       | %                 | ISO 294    |
| Moisture Absorption (23°C / 50% RH)        | 3.7             | %                 | ISO 62     |
| <b>ELECTRICAL</b>                          |                 |                   |            |
| Surface Resistivity                        | 1.E+07 - 1.E+09 | Ohm               | ASTM D 257 |
| <b>FLAME CHARACTERISTICS</b>               |                 |                   |            |
| UL Recognized, 94HB Flame Class Rating (3) | 1.5             | mm                | UL 94      |

