# LNP™ STAT-LOY™ COMPOUND A3000TXB

A3000TXB

## DESCRIPTION

LNP STAT-LOY A3000TXB is a compound based on ABS resin. Added features of this material include: Antistatic, Transparent. Bioassessed to ISO 10993.

## TYPICAL PROPERTY VALUES

Revision 20191212

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 5 mm/min | 38 | MPa | ASTM D 638 |
| Tensile Stress, brk, Type I, 5 mm/min | 27 | MPa | ASTM D 638 |
| Tensile Strain, yld, Type I, 5 mm/min | 4 | % | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 31 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 1660 | MPa | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 54 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 1630 | MPa | ASTM D 790 |
| Tensile Stress, yield, 5 mm/min | 37 | MPa | ISO 527 |
| Tensile Stress, break, 5 mm/min | 26 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 4 | % | ISO 527 |
| Tensile Strain, break, 5 mm/min | 29 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 1550 | MPa | ISO 527 |
| Flexural Stress | 49 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 1490 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 131 | J/m | ASTM D 256 |
| Multiaxial Impact | 33 | J | ISO 6603 |
| Instrumented Impact Total Energy, 23°C | 20 | J | ASTM D 3763 |
| Izod Impact, notched 80*10*4 +23°C | 14 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 78 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 66 | °C | ASTM D 648 |
| CTE, -30°C to 30°C, flow | 1.E-05 | 1/°C | ASTM D 696 |
| CTE, -30°C to 30°C, xflow | 1.09E-04 | 1/°C | ASTM D 696 |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 77 | °C | ISO 75/Bf |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 66 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Specific Gravity | 1.09 | - | ASTM D 792 |
| Density | 1.08 | g/cm³ | ASTM D 792 |
| Moisture Absorption, 50% RH, 24 hrs | 0.54 | % | ASTM D 570 |
| Mold Shrinkage, flow, 24 hrs | 0.4 – 0.6 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 0.6 – 0.8 | % | ASTM D 955 |
| Moisture Absorption (23°C / 50% RH) | 0.81 | % | ISO 62 |
| ELECTRICAL | | | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Volume Resistivity | 10000000000 – 1000000000000 | Ohm-cm | ASTM D 257 |
| Surface Resistivity | 1.E+09 – 1.E+11 | Ohm | ASTM D 257 |
| Static Decay, 5000V to <50V | <1 | < seconds | FTMS101B |
| INJECTION MOLDING | | | |
| Drying Temperature | 70 – 80 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.05 – 0.1 | % | |
| Melt Temperature | 200 – 210 | °C | |
| Front - Zone 3 Temperature | 205 – 215 | °C | |
| Middle - Zone 2 Temperature | 195 – 205 | °C | |
| Rear - Zone 1 Temperature | 180 – 195 | °C | |
| Mold Temperature | 10 – 50 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

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