

# LNP™ STAT-LOY™ M3000C compound

Polypropylene

SABIC Innovative Plastics

## Message:

LNP STAT-LOY M3000C is a compound based on unfilled Polypropylene resin. Added features of this grade include: Clean Compound System, Antistat.

Also known as: LNP\* STAT-LOY\* Compound M- CCS

Product reorder name: M3000C

| General Information              |                           |                   |                     |
|----------------------------------|---------------------------|-------------------|---------------------|
| Additive                         | Antistatic                |                   |                     |
| Features                         | Antistatic                |                   |                     |
|                                  | Low (to None) Ion Content |                   |                     |
| Processing Method                | Injection Molding         |                   |                     |
| Physical                         | Nominal Value             | Unit              | Test Method         |
| Specific Gravity                 | 0.930                     | g/cm <sup>3</sup> | ASTM D792, ISO 1183 |
| Molding Shrinkage                |                           |                   | ASTM D955           |
| Flow : 24 hr                     | 1.0 to 2.0                | %                 |                     |
| Across Flow : 24 hr              | 1.0 to 2.0                | %                 |                     |
| Water Absorption                 |                           |                   |                     |
| 24 hr, 50% RH                    | 0.16                      | %                 | ASTM D570           |
| Equilibrium, 23°C, 50% RH        | 0.16                      | %                 | ISO 62              |
| Mechanical                       | Nominal Value             | Unit              | Test Method         |
| Tensile Modulus                  |                           |                   |                     |
| -- <sup>1</sup>                  | 769                       | MPa               | ASTM D638           |
| --                               | 1180                      | MPa               | ISO 527-2/1         |
| Tensile Strength                 |                           |                   |                     |
| Break <sup>2</sup>               | 18.0                      | MPa               | ASTM D638           |
| Break                            | 24.0                      | MPa               | ISO 527-2/5         |
| Tensile Elongation               |                           |                   |                     |
| Break <sup>3</sup>               | 690                       | %                 | ASTM D638           |
| Break                            | 690                       | %                 | ISO 527-2/5         |
| Flexural Modulus                 |                           |                   |                     |
| 50.0 mm Span <sup>4</sup>        | 862                       | MPa               | ASTM D790           |
| -- <sup>5</sup>                  | 1970                      | MPa               | ISO 178             |
| Flexural Stress                  |                           |                   |                     |
| --                               | 38.0                      | MPa               | ISO 178             |
| Break, 50.0 mm Span <sup>6</sup> | 24.6                      | MPa               | ASTM D790           |
| Impact                           | Nominal Value             | Unit              | Test Method         |
| Notched Izod Impact              |                           |                   |                     |
| 23°C                             | 75                        | J/m               | ASTM D256           |

| 23°C <sup>7</sup>                               | 6.9                | kJ/m <sup>2</sup> | ISO 180/1A  |
|-------------------------------------------------|--------------------|-------------------|-------------|
| Instrumented Dart Impact                        |                    |                   |             |
| 23°C, Total Energy                              | 29.0               | J                 | ASTM D3763  |
| --                                              | 25.4               | J                 | ISO 6603-2  |
| Thermal                                         | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load               |                    |                   |             |
| 0.45 MPa, Unannealed, 3.20 mm                   | 74.0               | °C                | ASTM D648   |
| 0.45 MPa, Unannealed, 64.0 mm Span <sup>8</sup> | 75.0               | °C                | ISO 75-2/Bf |
| 1.8 MPa, Unannealed, 3.20 mm                    | 49.0               | °C                | ASTM D648   |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>9</sup>  | 49.0               | °C                | ISO 75-2/Af |
| CLTE                                            |                    |                   | ASTM D696   |
| Flow : -30 to 30°C                              | 1.3E-4             | cm/cm/°C          |             |
| Transverse : -30 to 30°C                        | 1.3E-4             | cm/cm/°C          |             |
| Electrical                                      | Nominal Value      | Unit              | Test Method |
| Surface Resistivity                             | 1.0E+10 to 1.0E+12 | ohms              | ASTM D257   |
| Injection                                       | Nominal Value      | Unit              |             |
| Drying Temperature                              | 71.1 to 82.2       | °C                |             |
| Drying Time                                     | 4.0                | hr                |             |
| Rear Temperature                                | 182 to 193         | °C                |             |
| Middle Temperature                              | 193 to 204         | °C                |             |
| Front Temperature                               | 199 to 210         | °C                |             |
| Processing (Melt) Temp                          | 188 to 199         | °C                |             |
| Mold Temperature                                | 32.2 to 48.9       | °C                |             |
| Back Pressure                                   | 0.172 to 0.344     | MPa               |             |
| Screw Speed                                     | 30 to 60           | rpm               |             |
| NOTE                                            |                    |                   |             |
| 1.                                              | 50 mm/min          |                   |             |
| 2.                                              | Type I, 5.0 mm/min |                   |             |
| 3.                                              | Type I, 5.0 mm/min |                   |             |
| 4.                                              | 1.3 mm/min         |                   |             |
| 5.                                              | 2.0 mm/min         |                   |             |
| 6.                                              | 1.3 mm/min         |                   |             |
| 7.                                              | 80*10*4            |                   |             |
| 8.                                              | 80*10*4 mm         |                   |             |
| 9.                                              | 80*10*4 mm         |                   |             |

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