

# LNP™ STAT-LOY™ COMPOUND PF303

PF-15

REGION ASIA

## DESCRIPTION

LNP STAT-LOY PF303 is a Nylon 6 base resin containing 15% Glass Fiber. Added features of this grade includes: Antistat.

## TYPICAL PROPERTY VALUES

Revision 20170816

| PROPERTIES                       | TYPICAL VALUES  | UNITS             | TEST METHODS |
|----------------------------------|-----------------|-------------------|--------------|
| <b>MECHANICAL</b>                |                 |                   |              |
| Tensile Stress, break            | 82              | MPa               | ASTM D 638   |
| Tensile Strain, break            | 2.5             | %                 | ASTM D 638   |
| Tensile Modulus, 50 mm/min       | 5040            | MPa               | ASTM D 638   |
| Flexural Stress                  | 124             | MPa               | ASTM D 790   |
| <b>IMPACT</b>                    |                 |                   |              |
| Izod Impact, unnotched, 23°C     | 653             | J/m               | ASTM D 4812  |
| Izod Impact, notched, 23°C       | 96              | J/m               | ASTM D 256   |
| <b>THERMAL</b>                   |                 |                   |              |
| HDT, 1.82 MPa, 3.2mm, unannealed | 182             | °C                | ASTM D 648   |
| <b>PHYSICAL</b>                  |                 |                   |              |
| Density                          | 1.25            | g/cm <sup>3</sup> | ASTM D 792   |
| Mold Shrinkage, flow, 24 hrs (5) | 0.3             | %                 | ASTM D 955   |
| <b>ELECTRICAL</b>                |                 |                   |              |
| Surface Resistivity              | 1.E+09 – 1.E+11 | Ohm               | ASTM D 257   |
| <b>MECHANICAL PROPERTIES</b>     |                 |                   |              |
| Flexural modulus                 | 4080            | MPa               | ISO 178/1A   |
| <b>INJECTION MOLDING</b>         |                 |                   |              |
| Drying Temperature               | 80              | °C                |              |
| Drying Time                      | 4               | hrs               |              |
| Maximum Moisture Content         | 0.15 – 0.25     | %                 |              |
| Melt Temperature                 | 230             | °C                |              |
| Front - Zone 3 Temperature       | 225 – 240       | °C                |              |
| Middle - Zone 2 Temperature      | 220 – 230       | °C                |              |
| Rear - Zone 1 Temperature        | 215 – 225       | °C                |              |

| PROPERTIES       | TYPICAL VALUES | UNITS | TEST METHODS |
|------------------|----------------|-------|--------------|
| Mold Temperature | 80 – 95        | °C    |              |
| Back Pressure    | 0.3 – 0.7      | MPa   |              |
| Screw Speed      | 30 – 60        | rpm   |              |

## DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.