

# LNP™ STAT-KON™ AE003 compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics Europe

## Message:

LNP STAT-KON AE003 is a compound based on Acrylonitrile Butadiene Styrene resin containing Carbon Fiber. Added features include : Electrically Conductive.

Also known as: LNP\* STAT-KON\* Compound AC-1003

Product reorder name: AE003

| General Information                                |                         |                   |             |
|----------------------------------------------------|-------------------------|-------------------|-------------|
| Filler / Reinforcement                             | Carbon Fiber            |                   |             |
| Features                                           | Electrically Conductive |                   |             |
| RoHS Compliance                                    | RoHS Compliant          |                   |             |
| Processing Method                                  | Injection Molding       |                   |             |
| Physical                                           | Nominal Value           | Unit              | Test Method |
| Density                                            | 1.10                    | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (23°C, 24 hr)                     | 0.23                    | %                 | ISO 62      |
| Mechanical                                         | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                                    | 9900                    | MPa               | ISO 527-2/1 |
| Tensile Stress (Break)                             | 52.0                    | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                             | 1.0                     | %                 | ISO 527-2/5 |
| Flexural Modulus <sup>1</sup>                      | 7100                    | MPa               | ISO 178     |
| Flexural Stress                                    | 66.0                    | MPa               | ISO 178     |
| Impact                                             | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact Strength <sup>2</sup> (23°C)   | 7.0                     | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>3</sup> (23°C) | 15                      | kJ/m <sup>2</sup> | ISO 180/1U  |
| Thermal                                            | Nominal Value           | Unit              | Test Method |
| Heat Deflection Temperature <sup>4</sup>           |                         |                   |             |
| 0.45 MPa, Unannealed, 64.0 mm Span                 | 104                     | °C                | ISO 75-2/Bf |
| 1.8 MPa, Unannealed, 64.0 mm Span                  | 99.0                    | °C                | ISO 75-2/Af |
| CLTE                                               |                         |                   | ISO 11359-2 |
| Flow : 23 to 60°C                                  | 2.0E-5                  | cm/cm/°C          |             |
| Transverse : 23 to 60°C                            | 9.7E-5                  | cm/cm/°C          |             |
| Injection                                          | Nominal Value           | Unit              |             |
| Drying Temperature                                 | 82.2                    | °C                |             |
| Drying Time                                        | 4.0                     | hr                |             |
| Suggested Max Moisture                             | 0.050 to 0.10           | %                 |             |
| Rear Temperature                                   | 204 to 216              | °C                |             |
| Middle Temperature                                 | 232 to 243              | °C                |             |
| Front Temperature                                  | 266 to 277              | °C                |             |
| Processing (Melt) Temp                             | 260                     | °C                |             |

|                  |                |     |
|------------------|----------------|-----|
| Mold Temperature | 71.1 to 82.2   | °C  |
| Back Pressure    | 0.172 to 0.344 | MPa |
| Screw Speed      | 30 to 60       | rpm |

| NOTE |            |  |
|------|------------|--|
| 1.   | 2.0 mm/min |  |
| 2.   | 80*10*4    |  |
| 3.   | 80*10*4    |  |
| 4.   | 80*10*4 mm |  |

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