# LNP™ STAT-KON™ Compound AE002 - Europe

ABS-CF10 — Saudi Basic Industries Corporation (SABIC)

## Product Texts

LNP STAT-KON AE002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% carbon fiber. Added features of this grade include: Electrically Conductive.

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **7400** | MPa | ISO 527 |
| Stress at break | **82** | MPa | ISO 527 |
| Strain at break | **1.4** | % | ISO 527 |
| Izod impact strength, +23°C, 4mm | **15** | kJ/m² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | **5** | kJ/m² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **101** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **105** | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | **23** | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | **77** | E-6/K | ISO 11359-1/-2 |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Surface Resistivity | **100000** | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1160** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **80** | °C | - |
| Pre-drying - Time | **4** | h | - |
| Processing humidity | **≤0.1** | % | - |
| Melt temperature | **260** | °C | - |
| Mold temperature | **70 - 80** | °C | - |
| Zone 1 | **205 - 215** | °C | - |
| Zone 2 | **230 - 245** | °C | - |
| Zone 3 | **265 - 275** | °C | - |
| Screw speed | **30 - 60** | rpm | - |
| Back pressure | **0.2 - 0.3** | MPa | - |

## Characteristics

**Processing**

Injection Molding

**Regional Availability**

Europe

**Special Characteristics**

Increased electrical conductivity