# LNP™ STAT-KON™ Compound DEL36P

(PC+PTFE)-CF30 Saudi Basic Industries Corporation (SABIC)

## Product Texts

LNP STAT-KON DEL36P compound is based on Polycarbonate (PC) resin containing 30% carbon fiber, 15% PTFE. Added features of this grade include: Internally Lubricated, Exceptional Processing, Electrically Conductive, Wear Resistant.

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | **22100** | MPa | ISO 527 |
| Yield stress | **148** | MPa | ISO 527 |
| Yield strain | **1.3** | % | ISO 527 |
| Stress at break | **148** | MPa | ISO 527 |
| Strain at break | **1.5** | % | ISO 527 |
| Flexural modulus | **15400** | MPa | ISO 178 |
| Izod impact strength, +23°C, 4mm | **20** | kJ/m² | ISO 180/1U |
| Izod notched impact strength, +23°C, 4mm | **7** | kJ/m² | ISO 180/1A |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Temp. of deflection under load, 1.80 MPa | **130** | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | **136** | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | **26** | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | **53** | E-6/K | ISO 11359-1/-2 |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Surface Resistivity | **10000** | Ohm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1420** | kg/m³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **120** | °C | - |
| Pre-drying - Time | **4** | h | - |
| Processing humidity | **≤0.02** | % | - |
| Melt temperature | **305 - 325** | °C | - |
| Mold temperature | **80 - 110** | °C | - |
| Zone 1 | **295 - 305** | °C | - |
| Zone 2 | **310 - 320** | °C | - |
| Zone 3 | **320 - 330** | °C | - |
| Screw speed | **30 - 60** | rpm | - |
| Back pressure | **0.2 - 0.3** | MPa | - |

## Characteristics

**Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity



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