

# LNP™ STAT-KON™ OX00428 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

## Message:

LNP STAT-KON OX00428 is a compound based on PPS - Linear resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Also known as: LNP\* STAT-KON\* Compound PDX-O-00428

Product reorder name: OX00428

| General Information              |                          |                   |             |
|----------------------------------|--------------------------|-------------------|-------------|
| Filler / Reinforcement           | Proprietary              |                   |             |
| Features                         | Electrically Conductive  |                   |             |
|                                  | Linear Polymer Structure |                   |             |
| Processing Method                | Injection Molding        |                   |             |
| Physical                         | Nominal Value            | Unit              | Test Method |
| Specific Gravity                 | 1.35                     | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                |                          |                   | ASTM D955   |
| Flow : 24 hr                     | 1.0 to 3.0               | %                 |             |
| Across Flow : 24 hr              | 1.0 to 3.0               | %                 |             |
| Water Absorption                 |                          |                   |             |
| 24 hr, 50% RH                    | 0.040                    | %                 | ASTM D570   |
| Equilibrium, 23°C, 50% RH        | 0.050                    | %                 | ISO 62      |
| Mechanical                       | Nominal Value            | Unit              | Test Method |
| Tensile Modulus                  |                          |                   |             |
| -- <sup>1</sup>                  | 3590                     | MPa               | ASTM D638   |
| --                               | 3290                     | MPa               | ISO 527-2/1 |
| Tensile Strength                 |                          |                   |             |
| Break <sup>2</sup>               | 64.0                     | MPa               | ASTM D638   |
| Break                            | 57.0                     | MPa               | ISO 527-2/5 |
| Tensile Elongation               |                          |                   |             |
| Break <sup>3</sup>               | 2.6                      | %                 | ASTM D638   |
| Break                            | 2.1                      | %                 | ISO 527-2/5 |
| Flexural Modulus                 |                          |                   |             |
| 50.0 mm Span <sup>4</sup>        | 3530                     | MPa               | ASTM D790   |
| -- <sup>5</sup>                  | 3270                     | MPa               | ISO 178     |
| Flexural Stress                  |                          |                   |             |
| --                               | 111                      | MPa               | ISO 178     |
| Break, 50.0 mm Span <sup>6</sup> | 116                      | MPa               | ASTM D790   |
| Impact                           | Nominal Value            | Unit              | Test Method |
| Notched Izod Impact              |                          |                   |             |

| 23°C                                            | 49                 | J/m               | ASTM D256   |
|-------------------------------------------------|--------------------|-------------------|-------------|
| 23°C <sup>7</sup>                               | 5.0                | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                           |                    |                   |             |
| 23°C                                            | 400                | J/m               | ASTM D4812  |
| 23°C <sup>8</sup>                               | 16                 | kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact                        |                    |                   |             |
| 23°C, Total Energy                              | 2.28               | J                 | ASTM D3763  |
| --                                              | 0.520              | J                 | ISO 6603-2  |
| Thermal                                         | Nominal Value      | Unit              | Test Method |
| Deflection Temperature Under Load               |                    |                   |             |
| 0.45 MPa, Unannealed, 3.20 mm                   | 153                | °C                | ASTM D648   |
| 0.45 MPa, Unannealed, 64.0 mm Span <sup>9</sup> | 159                | °C                | ISO 75-2/Bf |
| 1.8 MPa, Unannealed, 3.20 mm                    | 110                | °C                | ASTM D648   |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>10</sup> | 112                | °C                | ISO 75-2/Af |
| CLTE                                            |                    |                   | ASTM D696   |
| Flow : -30 to 30°C                              | 6.2E-5             | cm/cm/°C          |             |
| Transverse : -30 to 30°C                        | 6.4E-5             | cm/cm/°C          |             |
| Electrical                                      | Nominal Value      | Unit              | Test Method |
| Surface Resistivity                             | 2.0 to 5.0         | ohms              | ASTM D257   |
| Injection                                       | Nominal Value      | Unit              |             |
| Drying Temperature                              | 121 to 149         | °C                |             |
| Drying Time                                     | 4.0                | hr                |             |
| Rear Temperature                                | 304 to 316         | °C                |             |
| Middle Temperature                              | 321 to 332         | °C                |             |
| Front Temperature                               | 332 to 343         | °C                |             |
| Processing (Melt) Temp                          | 316 to 321         | °C                |             |
| Mold Temperature                                | 138 to 166         | °C                |             |
| Back Pressure                                   | 0.172 to 0.344     | MPa               |             |
| Screw Speed                                     | 30 to 60           | rpm               |             |
| NOTE                                            |                    |                   |             |
| 1.                                              | 5.0 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            |                   |             |
| 9.                                              | 80*10*4 mm         |                   |             |
| 10.                                             | 80*10*4 mm         |                   |             |

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#### Recommended distributors for this material

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