



## LNP™ STAT-KON™ Compound WEF42ISP

### Europe-Africa-Middle East: COMMERCIAL

LNP STAT-KON WEF42ISP is a compound based on Polybutylene Terephthalate resin containing Glass Fiber and Carbon Fiber. Added features include High Impact, Heat Stabilized and Electrically Conductive.

| TYPICAL PROPERTIES <sup>1</sup>        | TYPICAL VALUE   | Unit              | Standard     |
|----------------------------------------|-----------------|-------------------|--------------|
| <b>MECHANICAL</b>                      |                 |                   |              |
| Tensile Stress, yield, 5 mm/min        | 136             | MPa               | ISO 527      |
| Tensile Strain, break, 5 mm/min        | 3.3             | %                 | ISO 527      |
| Tensile Modulus, 1 mm/min              | 11200           | MPa               | ISO 527      |
| Flexural Stress, yield, 2 mm/min       | 205             | MPa               | ISO 178      |
| Flexural Modulus, 2 mm/min             | 9600            | MPa               | ISO 178      |
| <b>IMPACT</b>                          |                 |                   |              |
| Izod Impact, unnotched 80*10*4 +23°C   | 65              | kJ/m <sup>2</sup> | ISO 180/1U   |
| Izod Impact, notched 80*10*4 +23°C     | 13              | kJ/m <sup>2</sup> | ISO 180/1A   |
| <b>THERMAL</b>                         |                 |                   |              |
| HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm | 209             | °C                | ISO 75/Bf    |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm  | 203             | °C                | ISO 75/Af    |
| <b>PHYSICAL</b>                        |                 |                   |              |
| Mold Shrinkage, flow (5)               | 0.1 - 0.2       | %                 | SABIC Method |
| Density                                | 1.45            | g/cm <sup>3</sup> | ISO 1183     |
| <b>ELECTRICAL</b>                      |                 |                   |              |
| Surface Resistivity                    | 1.E+04 - 1.E+06 | Ohm               | ASTM D 257   |



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| PROCESSING PARAMETERS       | TYPICAL VALUE | Unit |
|-----------------------------|---------------|------|
| <b>Injection Molding</b>    |               |      |
| Drying Temperature          | 120           | °C   |
| Drying Time                 | 4             | hrs  |
| Maximum Moisture Content    | 0.05          | %    |
| Melt Temperature            | 240 - 265     | °C   |
| Front - Zone 3 Temperature  | 260 - 270     | °C   |
| Middle - Zone 2 Temperature | 245 - 255     | °C   |
| Rear - Zone 1 Temperature   | 220 - 230     | °C   |
| Mold Temperature            | 80 - 100      | °C   |
| Back Pressure               | 0.2 - 0.3     | MPa  |
| Screw Speed                 | 30 - 60       | rpm  |