

# LNP™ STAT-KON™ ZEL34XXC compound

Polyphenylene Ether + PS

SABIC Innovative Plastics Europe

## Message:

LNP STAT-KON ZEL34XXC is a compound based on PPE+PS Blend resin containing Carbon Fiber, PTFE. Added features include : Electrically Conductive , Internally Lubricated.

| General Information                                |                         |                   |                 |
|----------------------------------------------------|-------------------------|-------------------|-----------------|
| UL YellowCard                                      | E45329-101343842        |                   |                 |
| Filler / Reinforcement                             | Carbon Fiber            |                   |                 |
| Additive                                           | PTFE Lubricant          |                   |                 |
| Features                                           | Electrically Conductive |                   |                 |
|                                                    | Lubricated              |                   |                 |
| RoHS Compliance                                    | RoHS Compliant          |                   |                 |
| Processing Method                                  | Injection Molding       |                   |                 |
| Physical                                           | Nominal Value           | Unit              | Test Method     |
| Density                                            | 1.23                    | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                           | 0.090                   | %                 | Internal Method |
| Mechanical                                         | Nominal Value           | Unit              | Test Method     |
| Tensile Modulus                                    | 10600                   | MPa               | ISO 527-2/1     |
| Tensile Stress (Break)                             | 83.0                    | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                             | 1.4                     | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                      | 8100                    | MPa               | ISO 178         |
| Flexural Stress                                    | 120                     | MPa               | ISO 178         |
| Impact                                             | Nominal Value           | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>2</sup> (23°C)   | 5.0                     | 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                 | 127                     | °C                | ISO 75-2/Bf     |
| 1.8 MPa, Unannealed, 64.0 mm Span                  | 121                     | °C                | ISO 75-2/Af     |
| CLTE                                               |                         |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                  | 1.8E-5                  | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                            | 6.6E-5                  | cm/cm/°C          |                 |
| Electrical                                         | Nominal Value           | Unit              | Test Method     |
| Surface Resistivity                                | 1.0E+2 to 1.0E+4        | ohms              | ASTM D257       |
| Injection                                          | Nominal Value           | Unit              |                 |
| Drying Temperature                                 | 121                     | °C                |                 |
| Drying Time                                        | 4.0                     | hr                |                 |

|                        |                |     |
|------------------------|----------------|-----|
| Rear Temperature       | 277 to 288     | °C  |
| Middle Temperature     | 288 to 299     | °C  |
| Front Temperature      | 299 to 310     | °C  |
| Processing (Melt) Temp | 299 to 304     | °C  |
| Mold Temperature       | 82.2 to 110    | °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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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

