

# LNP™ STAT-KON™ DX04490 compound

Polycarbonate  
SABIC Innovative Plastics

Message:

LNP STAT-KON DX04490 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this grade is: Electrically Conductive.  
Also known as: LNP\* STAT-KON\* Compound PDX-D-04490  
Product reorder name: DX04490

| General Information              |                         |                   |                      |
|----------------------------------|-------------------------|-------------------|----------------------|
| UL YellowCard                    | E121562-102046644       |                   |                      |
| Filler / Reinforcement           | Proprietary             |                   |                      |
| Features                         | Electrically Conductive |                   |                      |
| Processing Method                | Injection Molding       |                   |                      |
| Physical                         | Nominal Value           | Unit              | Test Method          |
| Specific Gravity                 | 1.23                    | g/cm <sup>3</sup> | ASTM D792, ISO 1183  |
| Molding Shrinkage                |                         |                   |                      |
| Flow : 24 hr                     | 0.40                    | %                 | ASTM D955            |
| Across Flow : 24 hr              | 0.50                    | %                 | ASTM D955, ISO 294-4 |
| Flow : 24 hr                     | 0.42                    | %                 | ISO 294-4            |
| Water Absorption (24 hr, 50% RH) | 0.20                    | %                 | ASTM D570            |
| Mechanical                       | Nominal Value           | Unit              | Test Method          |
| Tensile Modulus                  |                         |                   |                      |
| -- <sup>1</sup>                  | 2990                    | MPa               | ASTM D638            |
| --                               | 2720                    | MPa               | ISO 527-2/1          |
| Tensile Strength                 |                         |                   |                      |
| Yield                            | 60.7                    | MPa               | ASTM D638            |
| Yield                            | 61.1                    | MPa               | ISO 527-2            |
| Break                            | 53.8                    | MPa               | ASTM D638            |
| Break                            | 54.3                    | MPa               | ISO 527-2            |
| Tensile Elongation               |                         |                   |                      |
| Yield                            | 4.2                     | %                 | ASTM D638            |
| Yield                            | 4.5                     | %                 | ISO 527-2            |
| Break                            | 16                      | %                 | ASTM D638            |
| Break                            | 8.5                     | %                 | ISO 527-2            |
| Flexural Modulus                 |                         |                   |                      |
| --                               | 2720                    | MPa               | ASTM D790            |
| --                               | 2510                    | MPa               | ISO 178              |
| Flexural Strength                |                         |                   |                      |
| --                               | 89.6                    | MPa               | ASTM D790            |
| --                               | 75.7                    | MPa               | ISO 178              |

| Impact                                         | Nominal Value    | Unit              | Test Method |
|------------------------------------------------|------------------|-------------------|-------------|
| Notched Izod Impact                            |                  |                   |             |
| 23°C                                           | 48               | J/m               | ASTM D256   |
| 23°C <sup>2</sup>                              | 5.5              | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                          |                  |                   |             |
| 23°C                                           | 2300             | J/m               | ASTM D4812  |
| 23°C <sup>3</sup>                              | 170              | kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact                       |                  |                   |             |
| 23°C, Energy at Peak Load                      | 4.26             | J                 | ASTM D3763  |
| --                                             | 9.43             | J                 | ISO 6603-2  |
| Thermal                                        | Nominal Value    | Unit              | Test Method |
| Deflection Temperature Under Load              |                  |                   |             |
| 1.8 MPa, Unannealed, 3.20 mm                   | 132              | °C                | ASTM D648   |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>4</sup> | 134              | °C                | ISO 75-2/Af |
| CLTE                                           |                  |                   |             |
| Flow : -40 to 40°C                             | 6.3E-5           | cm/cm/°C          | ASTM E831   |
| Flow : -40 to 40°C                             | 6.4E-5           | cm/cm/°C          | ISO 11359-2 |
| Transverse : -40 to 40°C                       | 5.9E-5           | cm/cm/°C          | ASTM E831   |
| Transverse : -40 to 40°C                       | 6.1E-5           | cm/cm/°C          | ISO 11359-2 |
| Electrical                                     | Nominal Value    | Unit              | Test Method |
| Surface Resistivity                            | 1.0E+2 to 1.0E+5 | ohms              | ASTM D257   |
| Volume Resistivity                             | 1.0E+2 to 1.0E+5 | ohms·cm           | ASTM D257   |
| Injection                                      | Nominal Value    | Unit              |             |
| Drying Temperature                             | 121              | °C                |             |
| Drying Time                                    | 4.0              | hr                |             |
| Suggested Max Moisture                         | 0.020            | %                 |             |
| Rear Temperature                               | 293 to 304       | °C                |             |
| Middle Temperature                             | 310 to 321       | °C                |             |
| Front Temperature                              | 321 to 332       | °C                |             |
| Processing (Melt) Temp                         | 304 to 327       | °C                |             |
| Mold Temperature                               | 82.2 to 110      | °C                |             |
| Back Pressure                                  | 0.172 to 0.344   | MPa               |             |
| Screw Speed                                    | 30 to 60         | rpm               |             |
| NOTE                                           |                  |                   |             |
| 1.                                             | 50 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

