

# LNP™ STAT-KON™ DD0009 compound

Polycarbonate  
SABIC Innovative Plastics

Message:

LNP STAT-KON DD0009 is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.  
Also known as: LNP\* STAT-KON\* Compound D-FR  
Product reorder name: DD0009

| General Information       |                         |                   |             |
|---------------------------|-------------------------|-------------------|-------------|
| UL YellowCard             | E121562-101283903       |                   |             |
| Filler / Reinforcement    | Carbon Powder           |                   |             |
| Features                  | Electrically Conductive |                   |             |
|                           | Flame Retardant         |                   |             |
| Processing Method         | Injection Molding       |                   |             |
| Physical                  | Nominal Value           | Unit              | Test Method |
| Specific Gravity          | 1.32                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage         |                         |                   |             |
| Flow : 24 hr              | 0.80                    | %                 | ASTM D955   |
| Across Flow : 24 hr       | 0.70                    | %                 | ASTM D955   |
| Across Flow : 24 hr       | 0.72                    | %                 | ISO 294-4   |
| Flow : 24 hr              | 0.75                    | %                 | ISO 294-4   |
| Water Absorption          |                         |                   |             |
| 24 hr, 50% RH             | 0.18                    | %                 | ASTM D570   |
| Equilibrium, 23°C, 50% RH | 0.27                    | %                 | ISO 62      |
| Mechanical                | Nominal Value           | Unit              | Test Method |
| Tensile Modulus           |                         |                   |             |
| -- <sup>1</sup>           | 2830                    | MPa               | ASTM D638   |
| --                        | 2810                    | MPa               | ISO 527-2/1 |
| Tensile Strength          |                         |                   |             |
| Yield                     | 61.9                    | MPa               | ASTM D638   |
| Yield                     | 62.8                    | MPa               | ISO 527-2   |
| Break                     | 53.9                    | MPa               | ASTM D638   |
| Break                     | 57.1                    | MPa               | ISO 527-2   |
| Tensile Elongation        |                         |                   |             |
| Yield                     | 1.2                     | %                 | ASTM D638   |
| Yield                     | 4.2                     | %                 | ISO 527-2   |
| Break                     | 5.6                     | %                 | ASTM D638   |
| Break                     | 7.5                     | %                 | ISO 527-2   |
| Flexural Modulus          |                         |                   |             |

|                                                 |                  |                   |                        |
|-------------------------------------------------|------------------|-------------------|------------------------|
| --                                              | 2830             | MPa               | ASTM D790              |
| --                                              | 2880             | MPa               | ISO 178                |
| Flexural Strength                               |                  |                   |                        |
| --                                              | 108              | MPa               | ASTM D790              |
| --                                              | 102              | MPa               | ISO 178                |
| Impact                                          | Nominal Value    | Unit              | Test Method            |
| Notched Izod Impact                             |                  |                   |                        |
| 23°C                                            | 68               | J/m               | ASTM D256              |
| 23°C <sup>2</sup>                               | 6.6              | kJ/m <sup>2</sup> | ISO 180/1A             |
| Unnotched Izod Impact                           |                  |                   |                        |
| 23°C                                            | 1600             | J/m               | ASTM D4812             |
| 23°C <sup>3</sup>                               | 71               | kJ/m <sup>2</sup> | ISO 180/1U             |
| Instrumented Dart Impact                        |                  |                   |                        |
| 23°C, Energy at Peak Load                       | 10.9             | J                 | ASTM D3763             |
| --                                              | 5.70             | J                 | ISO 6603-2             |
| Thermal                                         | Nominal Value    | Unit              | Test Method            |
| Deflection Temperature Under Load               |                  |                   |                        |
| 0.45 MPa, Unannealed, 3.20 mm                   | 141              | °C                | ASTM D648              |
| 0.45 MPa, Unannealed, 64.0 mm Span <sup>4</sup> | 139              | °C                | ISO 75-2/Bf            |
| 1.8 MPa, Unannealed, 3.20 mm                    | 133              | °C                | ASTM D648              |
| 1.8 MPa, Unannealed, 64.0 mm Span <sup>5</sup>  | 131              | °C                | ISO 75-2/Af            |
| CLTE                                            |                  |                   | ASTM E831, ISO 11359-2 |
| Flow : -40 to 40°C                              | 5.4E-5           | cm/cm/°C          |                        |
| Transverse : -40 to 40°C                        | 5.7E-5           | cm/cm/°C          |                        |
| Electrical                                      | Nominal Value    | Unit              | Test Method            |
| Surface Resistivity                             | 1.0E+4 to 1.0E+6 | ohms              | ASTM D257              |
| Flammability                                    | Nominal Value    | Unit              | Test Method            |
| Flame Rating (1.70 mm, Testing by SABIC)        | V-0              |                   | UL 94                  |
| 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 |
| 5. | 80*10*4 mm |

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#### Recommended distributors for this material

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