

# LNP™ STAT-KON™ DDF029 compound

Polycarbonate  
SABIC Innovative Plastics

Message:

LNP STAT-KON\* DDF029 is a compound based on Polycarbonate resin containing Carbon Powder, Flame Retardant, Glass Fiber. Added features of this material include: Electrically Conductive.  
Also known as: LNP\* STAT-KON\* Compound DF-FR  
Product reorder name: DDF029

| General Information               |                        |                   |             |
|-----------------------------------|------------------------|-------------------|-------------|
| UL YellowCard                     | E207780-101283844      |                   |             |
| Filler / Reinforcement            | Glass \charcoal powder |                   |             |
| Features                          | Conductivity           |                   |             |
|                                   | Flame retardancy       |                   |             |
| Processing Method                 | Injection molding      |                   |             |
| Physical                          | Nominal Value          | Unit              | Test Method |
| Specific Gravity                  | 1.37                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage                 |                        |                   |             |
| Flow: 24 hours                    | 0.40                   | %                 | ASTM D955   |
| Transverse flow: 24 hours         | 0.50                   | %                 | ASTM D955   |
| Vertical flow direction: 24 hours | 0.49                   | %                 | ISO 294-4   |
| Flow direction: 24 hours          | 0.44                   | %                 | ISO 294-4   |
| Water Absorption                  |                        |                   |             |
| 24 hr, 50% RH                     | 0.11                   | %                 | ASTM D570   |
| Equilibrium, 23°C, 50% RH         | 0.20                   | %                 | ISO 62      |
| Mechanical                        | Nominal Value          | Unit              | Test Method |
| Tensile Modulus                   |                        |                   |             |
| -- <sup>1</sup>                   | 4480                   | MPa               | ASTM D638   |
| --                                | 4600                   | MPa               | ISO 527-2/1 |
| Tensile Strength                  |                        |                   |             |
| Fracture                          | 81.9                   | MPa               | ASTM D638   |
| Fracture                          | 81.5                   | MPa               | ISO 527-2   |
| Tensile Elongation                |                        |                   |             |
| Fracture                          | 2.9                    | %                 | ASTM D638   |
| Fracture                          | 2.8                    | %                 | ISO 527-2   |
| Flexural Modulus                  |                        |                   |             |
| --                                | 4410                   | MPa               | ASTM D790   |
| --                                | 4800                   | MPa               | ISO 178     |
| Flexural Strength                 |                        |                   |             |
| --                                | 133                    | MPa               | ASTM D790   |

| --                                            | 135              | MPa               | ISO 178     |
|-----------------------------------------------|------------------|-------------------|-------------|
| Impact                                        | Nominal Value    | Unit              | Test Method |
| Notched Izod Impact                           |                  |                   |             |
| 23°C                                          | 53               | J/m               | ASTM D256   |
| 23°C <sup>2</sup>                             | 6.6              | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                         |                  |                   |             |
| 23°C                                          | 440              | J/m               | ASTM D4812  |
| 23°C <sup>3</sup>                             | 33               | kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact                      |                  |                   |             |
| 23°C, Energy at Peak Load                     | 7.30             | J                 | ASTM D3763  |
| --                                            | 2.27             | J                 | ISO 6603-2  |
| Thermal                                       | Nominal Value    | Unit              | Test Method |
| Deflection Temperature Under Load             |                  |                   |             |
| 0.45 MPa, unannealed, 3.20mm                  | 141              | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 3.20mm                   | 136              | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 64.0mm span <sup>4</sup> | 135              | °C                | ISO 75-2/Af |
| Electrical                                    | Nominal Value    | Unit              | Test Method |
| Surface Resistivity                           | 1.0E+5 - 1.0E+10 | ohms              | ASTM D257   |
| Injection                                     | Nominal Value    | Unit              |             |
| Drying Temperature                            | 121              | °C                |             |
| Drying Time                                   | 4.0              | hr                |             |
| Suggested Max Moisture                        | 0.020            | %                 |             |
| Rear Temperature                              | 293 - 304        | °C                |             |
| Middle Temperature                            | 310 - 321        | °C                |             |
| Front Temperature                             | 321 - 332        | °C                |             |
| Processing (Melt) Temp                        | 304 - 327        | °C                |             |
| Mold Temperature                              | 82.2 - 110       | °C                |             |
| Back Pressure                                 | 0.172 - 0.344    | MPa               |             |
| Screw Speed                                   | 30 - 60          | rpm               |             |
| NOTE                                          |                  |                   |             |
| 1.                                            | 50 mm/min        |                   |             |
| 2.                                            | 80*10*4          |                   |             |
| 3.                                            | 80*10*4          |                   |             |
| 4.                                            | 80*10*4 mm       |                   |             |

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