

# LNP™ STAT-KON™ RX04031 compound

Polyamide 66

SABIC Innovative Plastics Europe

## Message:

LNP STARFLAM RX04031 is a compound based on PA66 resin containing Carbon Fiber, Glass Fiber, Flame Retardant. Added features include: Non-Brominated & Non-Chlorinated Flame Retardant, Electrically Conductive, Easy Molding.

| General Information                                                          |                         |                   |                 |
|------------------------------------------------------------------------------|-------------------------|-------------------|-----------------|
| UL YellowCard                                                                | E45329-101282766        |                   |                 |
| Filler / Reinforcement                                                       | Glass\Carbon Fiber      |                   |                 |
| Features                                                                     | Bromine Free            |                   |                 |
|                                                                              | Chlorine Free           |                   |                 |
|                                                                              | Electrically Conductive |                   |                 |
|                                                                              | Flame Retardant         |                   |                 |
|                                                                              | Good Moldability        |                   |                 |
| RoHS Compliance                                                              | RoHS Compliant          |                   |                 |
| Processing Method                                                            | Injection Molding       |                   |                 |
| Physical                                                                     | Nominal Value           | Unit              | Test Method     |
| Density                                                                      | 1.47                    | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                                                     | 0.20                    | %                 | Internal Method |
| Mechanical                                                                   | Nominal Value           | Unit              | Test Method     |
| Tensile Stress (Break)                                                       | 184                     | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                                                       | 2.0                     | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                                                | 15000                   | MPa               | ISO 178         |
| Flexural Stress                                                              | 264                     | MPa               | ISO 178         |
| Impact                                                                       | Nominal Value           | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>2</sup> (23°C)                             | 9.0                     | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>3</sup> (23°C)                           | 63                      | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                                                      | Nominal Value           | Unit              | Test Method     |
| Heat Deflection Temperature <sup>4</sup> (1.8 MPa, Unannealed, 64.0 mm Span) | 218                     | °C                | ISO 75-2/Af     |
| Electrical                                                                   | Nominal Value           | Unit              | Test Method     |
| Surface Resistivity                                                          | 1.0E+3 to 1.0E+4        | ohms              | ASTM D257       |
| Flammability                                                                 | Nominal Value           | Unit              | Test Method     |
| Flame Rating (0.800 mm)                                                      | V-0                     |                   | UL 94           |
| Glow Wire Flammability Index (1.60 mm)                                       | 960                     | °C                | IEC 60695-2-12  |
| Injection                                                                    | Nominal Value           | Unit              |                 |
| Drying Temperature                                                           | 82.2                    | °C                |                 |
| Drying Time                                                                  | 4.0                     | hr                |                 |
| Suggested Max Moisture                                                       | 0.15 to 0.25            | %                 |                 |

|                        |                |     |
|------------------------|----------------|-----|
| Rear Temperature       | 249 to 260     | °C  |
| Middle Temperature     | 254 to 266     | °C  |
| Front Temperature      | 260 to 271     | °C  |
| Processing (Melt) Temp | 266 to 277     | °C  |
| Mold Temperature       | 60.0 to 98.9   | °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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