

# LNP™ THERMOCOMP™ LF006 compound

Polyetheretherketone

SABIC Innovative Plastics

## Message:

LNP THERMOCOMP LF006 is a compound based on Polyetheretherketone resin containing Glass Fiber.

| General Information                                                          |                                 |                   |             |
|------------------------------------------------------------------------------|---------------------------------|-------------------|-------------|
| UL YellowCard                                                                | E45329-101284428                |                   |             |
| Filler / Reinforcement                                                       | Glass fiber reinforced material |                   |             |
| RoHS Compliance                                                              | RoHS compliance                 |                   |             |
| Processing Method                                                            | Injection molding               |                   |             |
| Physical                                                                     | Nominal Value                   | Unit              | Test Method |
| Density                                                                      | 1.51                            | g/cm <sup>3</sup> | ISO 1183    |
| Mechanical                                                                   | Nominal Value                   | Unit              | Test Method |
| Tensile Modulus                                                              | 11100                           | MPa               | ISO 527-2/1 |
| Tensile Stress (Break)                                                       | 152                             | MPa               | ISO 527-2/5 |
| Tensile Strain (Break)                                                       | 1.9                             | %                 | ISO 527-2/5 |
| Flexural Modulus <sup>1</sup>                                                | 10200                           | MPa               | ISO 178     |
| Flexural Stress                                                              | 217                             | MPa               | ISO 178     |
| Impact                                                                       | Nominal Value                   | Unit              | Test Method |
| Notched Izod Impact <sup>2</sup> (23°C)                                      | 9.0                             | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact Strength <sup>3</sup> (23°C)                           | 45                              | 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) | > 280                           | °C                | ISO 75-2/Af |
| Linear thermal expansion coefficient                                         |                                 |                   | ISO 11359-2 |
| Flow: 23 to 60°C                                                             | 2.0E-5                          | cm/cm/°C          | ISO 11359-2 |
| Lateral: 23 to 60°C                                                          | 4.6E-5                          | cm/cm/°C          | ISO 11359-2 |
| Flammability                                                                 | Nominal Value                   |                   | Test Method |
| Flame Rating (0.780 mm)                                                      | V-0                             |                   | UL 94       |
| Injection                                                                    | Nominal Value                   | Unit              |             |
| Drying Temperature                                                           | 121 - 149                       | °C                |             |
| Drying Time                                                                  | 4.0                             | hr                |             |
| Suggested Max Moisture                                                       | 0.10                            | %                 |             |
| Rear Temperature                                                             | 349 - 360                       | °C                |             |
| Middle Temperature                                                           | 366 - 377                       | °C                |             |
| Front Temperature                                                            | 382 - 393                       | °C                |             |
| Processing (Melt) Temp                                                       | 382 - 388                       | °C                |             |
| Mold Temperature                                                             | 138 - 166                       | °C                |             |
| Back Pressure                                                                | 0.344 - 0.689                   | MPa               |             |

|             |            |     |
|-------------|------------|-----|
| Screw Speed | 60 - 100   | rpm |
| NOTE        |            |     |
| 1.          | 2.0 mm/min |     |
| 2.          | 80*10*4    |     |
| 3.          | 80*10*4    |     |
| 4.          | 80*10*4 mm |     |

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