

# LNP™ THERMOCOMP™ WF006 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

## Message:

LNP THERMOCOMP WF006 is a compound based on Polybutylene Terephthalate resin containing Glass Fiber.

| General Information                                |                                 |                   |                 |
|----------------------------------------------------|---------------------------------|-------------------|-----------------|
| UL YellowCard                                      | E45329-101284436                |                   |                 |
| Filler / Reinforcement                             | Glass fiber reinforced material |                   |                 |
| RoHS Compliance                                    | RoHS compliance                 |                   |                 |
| Processing Method                                  | Injection molding               |                   |                 |
| Physical                                           | Nominal Value                   | Unit              | Test Method     |
| Density                                            | 1.53                            | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                           | 0.28                            | %                 | Internal method |
| Mechanical                                         | Nominal Value                   | Unit              | Test Method     |
| Tensile Stress (Break)                             | 140                             | MPa               | ISO 527-2/5     |
| Tensile Strain (Break)                             | 2.5                             | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                      | 8000                            | MPa               | ISO 178         |
| Flexural Stress                                    | 191                             | MPa               | ISO 178         |
| Impact                                             | Nominal Value                   | Unit              | Test Method     |
| Notched Izod Impact <sup>2</sup> (23°C)            | 10                              | kJ/m <sup>2</sup> | ISO 180/1A      |
| Unnotched Izod Impact Strength <sup>3</sup> (23°C) | 50                              | kJ/m <sup>2</sup> | ISO 180/1U      |
| Thermal                                            | Nominal Value                   | Unit              | Test Method     |
| Heat Deflection Temperature <sup>4</sup>           |                                 |                   |                 |
| 0.45 MPa, unannealed, 64.0mm span                  | 222                             | °C                | ISO 75-2/Bf     |
| 1.8 MPa, unannealed, 64.0mm span                   | 203                             | °C                | ISO 75-2/Af     |
| Linear thermal expansion coefficient               |                                 |                   | ISO 11359-2     |
| Flow: 23 to 60°C                                   | 3.2E-5                          | cm/cm/°C          | ISO 11359-2     |
| Lateral: 23 to 60°C                                | 1.1E-4                          | cm/cm/°C          | ISO 11359-2     |
| Injection                                          | Nominal Value                   | Unit              |                 |
| Drying Temperature                                 | 121                             | °C                |                 |
| Drying Time                                        | 4.0                             | hr                |                 |
| Suggested Max Moisture                             | 0.050                           | %                 |                 |
| Rear Temperature                                   | 221 - 232                       | °C                |                 |
| Middle Temperature                                 | 243 - 254                       | °C                |                 |
| Front Temperature                                  | 260 - 271                       | °C                |                 |
| Processing (Melt) Temp                             | 238 - 266                       | °C                |                 |
| Mold Temperature                                   | 82.2 - 98.9                     | °C                |                 |
| Back Pressure                                      | 0.172 - 0.344                   | MPa               |                 |
| Screw Speed                                        | 30 - 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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