

# LNP™ THERMOCOMP™ HB006 compound

Polyamide 11  
SABIC Innovative Plastics

Message:

LNP THERMOCOMP HB006 is a compound based on Nylon 11 resin containing Glass Bead.  
Also known as: LNP\* THERMOCOMP\* Compound HB-1006  
Product reorder name: HB006

| General Information               |               |                   |             |
|-----------------------------------|---------------|-------------------|-------------|
| Filler / Reinforcement            | Glass beads   |                   |             |
| Physical                          | Nominal Value | Unit              | Test Method |
| Specific Gravity                  |               |                   |             |
| --                                | 1.27          | g/cm <sup>3</sup> | ASTM D792   |
| --                                | 1.24          | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage                 |               |                   |             |
| Flow: 24 hours                    | 1.7           | %                 | ASTM D955   |
| Transverse flow: 24 hours         | 1.5           | %                 | ASTM D955   |
| Vertical flow direction: 24 hours | 1.5           | %                 | ISO 294-4   |
| Flow direction: 24 hours          | 1.7           | %                 | ISO 294-4   |
| Water Absorption (24 hr, 50% RH)  | 0.10          | %                 | ASTM D570   |
| Mechanical                        | Nominal Value | Unit              | Test Method |
| Tensile Modulus                   |               |                   |             |
| -- <sup>1</sup>                   | 1970          | MPa               | ASTM D638   |
| --                                | 2090          | MPa               | ISO 527-2/1 |
| Tensile Strength                  |               |                   |             |
| Yield                             | 45.5          | MPa               | ASTM D638   |
| Yield                             | 46.0          | MPa               | ISO 527-2   |
| Fracture                          | 43.4          | MPa               | ASTM D638   |
| Fracture                          | 41.0          | MPa               | ISO 527-2   |
| Tensile Elongation                |               |                   |             |
| Yield                             | 23            | %                 | ASTM D638   |
| Yield                             | 24            | %                 | ISO 527-2   |
| Fracture                          | 20            | %                 | ASTM D638   |
| Fracture                          | 43            | %                 | ISO 527-2   |
| Flexural Modulus                  |               |                   |             |
| --                                | 1920          | MPa               | ASTM D790   |
| --                                | 3000          | MPa               | ISO 178     |
| Flexural Strength                 |               |                   |             |
| --                                | 55.2          | MPa               | ASTM D790   |
| --                                | 58.0          | MPa               | ISO 178     |
| Impact                            | Nominal Value | Unit              | Test Method |

| Notched Izod Impact                                  |               |                   |             |
|------------------------------------------------------|---------------|-------------------|-------------|
| 23°C                                                 | 85            | J/m               | ASTM D256   |
| 23°C <sup>2</sup>                                    | 6.2           | kJ/m <sup>2</sup> | ISO 180/1A  |
| Unnotched Izod Impact                                |               |                   |             |
| 23°C                                                 | 1500          | J/m               | ASTM D4812  |
| 23°C <sup>3</sup>                                    | 170           | kJ/m <sup>2</sup> | ISO 180/1U  |
| Instrumented Dart Impact (23°C, Energy at Peak Load) | 33.3          | J                 | ASTM D3763  |
| Thermal                                              | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load                    |               |                   |             |
| 0.45 MPa, unannealed, 3.20mm                         | 145           | °C                | ASTM D648   |
| 0.45 MPa, unannealed, 64.0mm span <sup>4</sup>       | 151           | °C                | ISO 75-2/Bf |
| 1.8 MPa, unannealed, 3.20mm                          | 46.1          | °C                | ASTM D648   |
| 1.8 MPa, unannealed, 64.0mm span <sup>5</sup>        | 47.0          | °C                | ISO 75-2/Af |
| 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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