

# LNP™ THERMOCOMP™ IF007 compound

Polyamide 612  
SABIC Innovative Plastics

Message:

LNP THERMOCOMP\* IF007 is a compound based on Nylon 6/12 resin containing 35% Glass Fiber.  
Also known as: LNP\* THERMOCOMP\* Compound IF-1007  
Product reorder name: IF007

| General Information                                              |                                  |                   |             |
|------------------------------------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                           | Glass Fiber,35% Filler by Weight |                   |             |
| Processing Method                                                | Injection Molding                |                   |             |
| Physical                                                         | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                                                 | 1.30                             | g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                                                       | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus <sup>1</sup>                                     | 8890                             | MPa               | ASTM D638   |
| Tensile Strength (Break)                                         | 150                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                       | 3.0                              | %                 | ASTM D638   |
| Flexural Modulus                                                 | 8270                             | MPa               | ASTM D790   |
| Flexural Strength                                                | 228                              | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (23°C)                                       | 85                               | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)                                     | 800                              | J/m               | ASTM D4812  |
| Thermal                                                          | Nominal Value                    | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 199                              | °C                | ASTM D648   |
| Injection                                                        | Nominal Value                    | Unit              |             |
| Drying Temperature                                               | 82.2                             | °C                |             |
| Drying Time                                                      | 4.0                              | hr                |             |
| Suggested Max Moisture                                           | 0.12 to 0.20                     | %                 |             |
| Rear Temperature                                                 | 254 to 266                       | °C                |             |
| Middle Temperature                                               | 260 to 271                       | °C                |             |
| Front Temperature                                                | 271 to 282                       | °C                |             |
| Processing (Melt) Temp                                           | 271 to 277                       | °C                |             |
| Mold Temperature                                                 | 65.6 to 93.3                     | °C                |             |
| Back Pressure                                                    | 0.172 to 0.344                   | MPa               |             |
| Screw Speed                                                      | 30 to 60                         | rpm               |             |
| NOTE                                                             |                                  |                   |             |
| 1.                                                               | 50 mm/min                        |                   |             |

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