# LNP™ THERMOCOMP™ UF009AXP compound

Polyphthalamide

SABIC Innovative Plastics Europe

## Message:

LNP THERMOCOMP UF009AXP is a compound based on Polyphthalamide resin containing 45% Glass Fiber.
Also known as: LNP* THERMOCOMP* Compound UF-1009 A
Product reorder name: UF009AXP

| General Information | | | |
|---|---|---|---|
| Filler / Reinforcement | Glass Fiber,45% Filler by Weight | | |
| RoHS Compliance | RoHS Compliant | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.58 | g/cm³ | ISO 1183 |
| Molding Shrinkage - Flow | 0.10 to 0.30 | % | Internal Method |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 14400 | MPa | ISO 527-2/1 |
| Tensile Stress (Break) | 194 | MPa | ISO 527-2/5 |
| Tensile Strain (Break) | 1.3 | % | ISO 527-2/5 |
| Flexural Modulus [1] | 13200 | MPa | ISO 178 |
| Flexural Stress | 387 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact Strength [2] (23°C) | 14 | kJ/m² | ISO 180/1A |
| Unnotched Izod Impact Strength [3] (23°C) | 90 | kJ/m² | ISO 180/1U |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| CLTE | | | ISO 11359-2 |
| Flow : 23 to 60°C | 1.9E-5 | cm/cm/°C | |
| Transverse : 23 to 60°C | 5.2E-5 | cm/cm/°C | |
| **Injection** | **Nominal Value** | **Unit** | |
| Drying Temperature | 121 to 149 | °C | |
| Drying Time | 4.0 | hr | |
| Suggested Max Moisture | 0.15 | % | |
| Rear Temperature | 310 to 321 | °C | |
| Middle Temperature | 316 to 327 | °C | |
| Front Temperature | 327 to 338 | °C | |
| Processing (Melt) Temp | 316 to 332 | °C | |
| Mold Temperature | 138 to 166 | °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 |



## Recommended distributors for this material

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