# LNP™ THERMOCOMP™ Compound UF004AS

UF-1004 A HS

## DESCRIPTION

LNP THERMOCOMP UF004AS compound is based on Polyphthalamide (PPA) resin containing 20% glass fiber. Added features of this grade include: Heat Stabilized.

| GENERAL INFORMATION | |
|---|---|
| **Features** | Heat Stabilized, High stiffness/Strength, High temperature resistance, No PFAS intentionally added |
| **Fillers** | Glass Fiber (Total fluorine >50ppm only from inorganic fluorine) |
| **Polymer Types** | Polyphthalamide (PPA) |
| **Processing Techniques** | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Automotive | Automotive Under the Hood |
| Consumer | Commercial Appliance |
| Electrical and Electronics | Electronic Components, Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **MECHANICAL** [1] | | | |
| **Tensile Stress, break, 5 mm/min** | 136 | MPa | ISO 527 |
| **Tensile Strain, break, 5 mm/min** | 1.7 | % | ISO 527 |
| **Tensile Modulus, 1 mm/min** | 7500 | MPa | ISO 527 |
| **Flexural Stress, break, 2 mm/min** | 178 | MPa | ISO 178 |
| **Flexural Modulus, 2 mm/min** | 7000 | MPa | ISO 178 |
| **IMPACT** [1] | | | |
| **Izod Impact, unnotched 80*10*4 +23°C** | 25 | kJ/m² | ISO 180/1U |
| **Izod Impact, notched 80*10*4 +23°C** | 4 | kJ/m² | ISO 180/1A |
| **THERMAL** [1] | | | |
| **CTE, 23°C to 60°C, flow** | 3.1E-05 | 1/°C | ISO 11359-2 |
| **CTE, 23°C to 60°C, xflow** | 6.E-05 | 1/°C | ISO 11359-2 |
| **HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm** | 256 | °C | ISO 75/Af |
| **PHYSICAL** [1] | | | |
| **Mold Shrinkage on Tensile Bar, flow** [2] | 0.2 – 0.4 | % | SABIC method |
| **Density** | 1.39 | g/cm³ | ISO 1183 |
| **FLAME CHARACTERISTICS** [3] | | | |
| **UL Yellow Card Link** | E45329-101343841 | - | - |
| **UL Recognized, 94HB Flame Class Rating** | 0.75 | mm | UL 94 |
| **INJECTION MOLDING** [4] | | | |

© 2026 Copyright by SABIC. All rights reserved

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.15 | % | |
| Melt Temperature | 315 – 330 | °C | |
| Front - Zone 3 Temperature | 325 – 340 | °C | |
| Middle - Zone 2 Temperature | 315 – 325 | °C | |
| Rear - Zone 1 Temperature | 310 – 320 | °C | |
| Mold Temperature | 140 – 165 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

## DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

© 2026 Copyright by SABIC. All rights reserved