

# LNP™ THERMOCOMP™ MF004S compound

## General Information

### Product Description

LNP THERMOCOMP\* MF004S is a compound based on Polypropylene resin containing 20% Glass Fiber. Added features of this material include: Chemically Coupled, Heat Stabilized.

Also known as: LNP\* THERMOCOMP\* Compound MFX-1004 HS

Product reorder name: MF004S

### General

|                        |                                        |
|------------------------|----------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight    |
| Additive               | • Heat Stabilizer                      |
| Features               | • Chemically Coupled • Heat Stabilized |
| Processing Method      | • Injection Molding                    |

## ASTM and ISO Properties <sup>1</sup>

| Physical                                                           | Nominal Value | Unit              | Test Method |
|--------------------------------------------------------------------|---------------|-------------------|-------------|
| Density                                                            | 1.04          | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (24 hr)                                   | 4.0E-3        | in/in             | ASTM D955   |
| Molding Shrinkage - Across Flow (24 hr)                            | 0.010         | in/in             | ASTM D955   |
| Mechanical                                                         | Nominal Value | Unit              | Test Method |
| Tensile Strength (Break)                                           | 9600          | psi               | ASTM D638   |
| Tensile Elongation (Break)                                         | 3.1           | %                 | ASTM D638   |
| Flexural Modulus                                                   | 600000        | psi               | ASTM D790   |
| Flexural Strength                                                  | 15500         | psi               | ASTM D790   |
| Impact                                                             | Nominal Value | Unit              | Test Method |
| Notched Izod Impact (73°F)                                         | 0.80          | ft-lb/in          | ASTM D256   |
| Unnotched Izod Impact (73°F)                                       | 10            | ft-lb/in          | ASTM D4812  |
| Thermal                                                            | Nominal Value | Unit              | Test Method |
| Deflection Temperature Under Load<br>264 psi, Unannealed, 0.126 in | 293           | °F                | ASTM D648   |

## Processing Information

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Drying Temperature | 180           | °F   |
| Drying Time        | 4.0           | hr   |
| Rear Temperature   | 380 to 400    | °F   |
| Middle Temperature | 420 to 440    | °F   |



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## SABIC Innovative Plastics - Polypropylene

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Front Temperature      | 460 to 480    | °F   |
| Processing (Melt) Temp | 440 to 480    | °F   |
| Mold Temperature       | 90.0 to 120   | °F   |
| Back Pressure          | 25.0 to 50.0  | psi  |
| Screw Speed            | 30 to 60      | rpm  |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

