# LNP™ THERMOCOMP™ Compound MX00709

MF-1004 HS UV HP

## DESCRIPTION

LNP THERMOCOMP MX00709 compound is based on Polypropylene (PP) resin containing 30% glass fiber. Added features of this grade include: Heat Stabilized.

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

| INDUSTRY | SUB INDUSTRY |
|---|---|
| Building and Construction | Water Management |
| Consumer | Sport/Leisure, Personal Accessory |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL [1] | | | |
| **Tensile Stress, brk, Type I, 5 mm/min** | 76 | MPa | ASTM D638 |
| **Tensile Strain, brk, Type I, 5 mm/min** | 2.7 | % | ASTM D638 |
| **Tensile Modulus, 50 mm/min** | 7860 | MPa | ASTM D638 |
| **Flexural Stress, brk, 1.3 mm/min, 50 mm span** | 123 | MPa | ASTM D790 |
| **Flexural Modulus, 1.3 mm/min, 50 mm span** | 6170 | MPa | ASTM D790 |
| IMPACT [1] | | | |
| **Izod Impact, notched, 23°C** | 103 | J/m | ASTM D256 |
| THERMAL [1] | | | |
| **HDT, 1.82 MPa, 3.2mm, unannealed** | 151 | °C | ASTM D648 |
| PHYSICAL [1] | | | |
| **Specific Gravity** | 1.15 | - | ASTM D792 |
| INJECTION MOLDING [2] | | | |
| **Drying Temperature** | 80 | °C | |
| **Drying Time** | 4 | Hrs | |
| **Melt Temperature** | 225 – 250 | °C | |
| **Front - Zone 3 Temperature** | 240 – 250 | °C | |
| **Middle - Zone 2 Temperature** | 215 – 225 | °C | |
| **Rear - Zone 1 Temperature** | 195 – 205 | °C | |
| **Mold Temperature** | 30 – 50 | °C | |
| **Back Pressure** | 0.2 – 0.3 | MPa | |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| **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) 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.

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