# LNP™ THERMOCOMP™ Compound PF003

PF-1003
REGION AMERICAS

## DESCRIPTION

LNP THERMOCOMP* PF003 is a compound based on Nylon 6 resin containing 15% Glass Fiber.

## TYPICAL PROPERTY VALUES

Revision 20250630

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break | 123 | MPa | ASTM D638 |
| Tensile Strain, break | 3.2 | % | ASTM D638 |
| Tensile Modulus, 50 mm/min | 6350 | MPa | ASTM D638 |
| Flexural Stress | 179 | MPa | ASTM D790 |
| Flexural Modulus | 5600 | MPa | ASTM D790 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 530 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 42 | J/m | ASTM D256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 203 | °C | ASTM D648 |
| PHYSICAL | | | |
| Density | 1.27 | g/cm³ | ASTM D792 |
| INJECTION MOLDING | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.15 – 0.25 | % | |
| Melt Temperature | 265 – 275 | °C | |
| Front - Zone 3 Temperature | 275 – 290 | °C | |
| Middle - Zone 2 Temperature | 265 – 275 | °C | |
| Rear - Zone 1 Temperature | 250 – 260 | °C | |
| Mold Temperature | 80 – 95 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 30 – 60 | rpm | |

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