# LNP™ THERMOCOMP™ COMPOUND LF008

LF-1008
REGION ASIA

## DESCRIPTION

LNP THERMOCOMP LF008 is a compound based on Polyetheretherketone resin containing 40% Glass Fiber.

## TYPICAL PROPERTY VALUES

Revision 20181219

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, yield | 2 | MPa | ASTM D 638 |
| Tensile Stress, break | 154 | MPa | ASTM D 638 |
| Tensile Strain, yield | 2.4 | % | ASTM D 638 |
| Tensile Strain, break | 2.4 | % | ASTM D 638 |
| Tensile Modulus, 50 mm/min | 13780 | MPa | ASTM D 638 |
| Flexural Stress | 234 | MPa | ASTM D 790 |
| Flexural Modulus | 9650 | MPa | ASTM D 790 |
| Tensile Stress, yield | 156 | MPa | ISO 527 |
| Tensile Stress, break | 155 | MPa | ISO 527 |
| Tensile Strain, yield | 2.2 | % | ISO 527 |
| Tensile Strain, break | 2.4 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 12810 | MPa | ISO 527 |
| Flexural Stress | 240 | MPa | ISO 178 |
| Flexural Modulus | 10400 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 811 | J/m | ASTM D 4812 |
| Izod Impact, notched, 23°C | 69 | J/m | ASTM D 256 |
| Instrumented Impact Energy @ peak, 23°C | 13 | J | ASTM D 3763 |
| Multiaxial Impact | 3 | J | ISO 6603 |
| Izod Impact, unnotched 80*10*4 +23°C | 53 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 7 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| CTE, -40°C to 40°C, flow | 1.74E-05 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, xflow | 4.18E-05 | 1/°C | ASTM E 831 |
| CTE, -40°C to 40°C, flow | 4.E-06 | 1/°C | ISO 11359-2 |
| CTE, -40°C to 40°C, xflow | 2.E-06 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 261 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Density | 1.61 | g/cm³ | ASTM D 792 |
| Mold Shrinkage, flow, 24 hrs | 0.5 – 0.7 | % | ASTM D 955 |
| Mold Shrinkage, xflow, 24 hrs | 1 – 1 | % | ASTM D 955 |
| Mold Shrinkage, flow, 24 hrs | 0.64 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs | 1.1 | % | ISO 294 |

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| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| Density | 1.61 | g/cm³ | ISO 1183 |
| INJECTION MOLDING | | | |
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | hrs | |
| Maximum Moisture Content | 0.1 | % | |
| Melt Temperature | 380 – 390 | °C | |
| Front - Zone 3 Temperature | 380 – 395 | °C | |
| Middle - Zone 2 Temperature | 365 – 375 | °C | |
| Rear - Zone 1 Temperature | 350 – 360 | °C | |
| Mold Temperature | 140 – 165 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 60 – 100 | rpm | |

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