# LNP™ THERMOCOMP™ COMPOUND LC008EXP

## DESCRIPTION

LNP THERMOCOMP LC008EXP is a compound based on Polyetheretherketone containing Carbon Fiber. Added features include Electrically Conductive, Easy Molding.

## TYPICAL PROPERTY VALUES

Revision 20191213

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, break, 5 mm/min | 256 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 1.6 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 26200 | MPa | ISO 527 |
| Flexural Stress, break, 2 mm/min | 341 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 22900 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 45 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 9 | kJ/m² | ISO 180/1A |
| THERMAL | | | |
| CTE, 23°C to 60°C, flow | 4.E-06 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 60°C, xflow | 4.1E-05 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | >300 | °C | ISO 75/Af |
| PHYSICAL | | | |
| Density | 1.45 | 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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