# LNP™ THERMOCOMP™ COMPOUND EF004XXP

## DESCRIPTION

LNP THERMOCOMP EF004XXP is a compound based on Polyetherimide resin containing Glass Fiber. Added features of this material include: High modulus, high strength, good dimension stability and good warpage control.

## TYPICAL PROPERTY VALUES

Revision 20191216

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|---|---|---|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 5 mm/min | 150 | MPa | ASTM D 638 |
| Tensile Strain, brk, Type I, 5 mm/min | 3.5 | % | ASTM D 638 |
| Tensile Modulus, 5 mm/min | 7040 | MPa | ASTM D 638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 240 | MPa | ASTM D 790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 7030 | MPa | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 60 | J/m | ASTM D 256 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 210 | °C | ASTM D 648 |
| Relative Temp Index, Elec [1] | 105 | °C | UL 746B |
| Relative Temp Index, Mech w/impact [1] | 105 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact [1] | 105 | °C | UL 746B |
| PHYSICAL | | | |
| Density | 1.42 | g/cm³ | ASTM D 792 |
| Melt Flow Rate, 337°C/6.7 kgf | 9.5 | g/10 min | ASTM D 1238 |
| FLAME CHARACTERISTICS [1] | | | |
| UL Yellow Card Link | E207780-103690242 | - | - |
| UL Recognized, 94V-0 Flame Class Rating | ≥0.75 | mm | UL 94 |
| UL Recognized, 94V-2 Flame Class Rating | ≥0.4 | mm | UL 94 |
| INJECTION MOLDING | | | |
| Drying Temperature | 150 | °C | |
| Drying Time | 4 – 6 | hrs | |
| Melt Temperature | 350 – 400 | °C | |
| Nozzle Temperature | 345 – 400 | °C | |
| Front - Zone 3 Temperature | 345 – 400 | °C | |
| Middle - Zone 2 Temperature | 340 – 400 | °C | |
| Rear - Zone 1 Temperature | 330 – 400 | °C | |
| Mold Temperature | 135 – 165 | °C | |
| Back Pressure | 0.3 – 0.7 | MPa | |
| Screw Speed | 40 – 70 | rpm | |

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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