# LNP™ THERMOCOMP™ Compound RC008ESS
## Europe-Africa-Middle East: COMMERCIAL

**Also known as: LNP™ THERMOCOMP™ Compound RC-1008 EM HS**
**Product reorder name: RC008ESS**

LNP THERMOCOMP RC008ESS is a compound based on PA66 resin containing Carbon Fiber. Added features include; Electrically Conductive, Easy Molding, Heat Stabilized.

| TYPICAL PROPERTIES[1] | TYPICAL VALUE | Unit | Standard |
|---|---|---|---|
| **MECHANICAL** | | | |
| Tensile Stress, yield, 5 mm/min | 254 | MPa | ISO 527 |
| Tensile Strain, break, 5 mm/min | 2.7 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 22900 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 375 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 24600 | MPa | ISO 178 |
| **IMPACT** | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 70 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 12 | kJ/m² | ISO 180/1A |
| **PHYSICAL** | | | |
| Mold Shrinkage, flow, 24 hrs (5) | 0.2 | % | ISO 294 |
| Mold Shrinkage, xflow, 24 hrs (5) | 0.8 | % | ISO 294 |
| Density | 1.32 | g/cm³ | ISO 1183 |
| **ELECTRICAL** | | | |
| Surface Resistivity | 1.E+01 - 1.E+02 | Ohm | ASTM D 257 |

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| PROCESSING PARAMETERS | TYPICAL VALUE | Unit |
|---|---|---|
| **Injection Molding** | | |
| Drying Temperature | 80 | °C |
| Drying Time | 4 | hrs |
| Maximum Moisture Content | 0.15 - 0.25 | % |
| Melt Temperature | 280 - 305 | °C |
| Front - Zone 3 Temperature | 295 - 305 | °C |
| Middle - Zone 2 Temperature | 280 - 295 | °C |
| Rear - Zone 1 Temperature | 265 - 275 | °C |
| Mold Temperature | 95 - 110 | °C |
| Back Pressure | 0.2 - 0.3 | MPa |
| Screw Speed | 30 - 60 | rpm |