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SABIC Innovative Plastics™

# LNP* Starflam* Compound RF0097E

## Europe-Africa-Middle East: COMMERCIAL

**Also known as: LNP* Starflam* Compound RF-1009 Z270 EM**
**Product reorder name: RF0097E**

LNP* Starflam* RF0097E is a compound based on Nylon 66 resin containing Glass Fiber, Flame Retardant. Added features of this material include: Non-Brominated & Non-Chlorinated Flame Retardant.

| TYPICAL PROPERTIES [1] | TYPICAL VALUE | UNIT | STANDARD |
|---|---|---|---|
| **MECHANICAL** | | | |
| Tensile Stress, break | 170 | MPa | ISO 527 |
| Tensile Strain, break | 3 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 13500 | MPa | ISO 527 |
| Flexural Stress | 255 | MPa | ISO 178 |
| Flexural Modulus | 12500 | MPa | ISO 178 |
| **IMPACT** | | | |
| Izod Impact, unnotched 80*10*4 +23°C | 50 | kJ/m² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 11 | kJ/m² | ISO 180/1A |
| **THERMAL** | | | |
| Ball Pressure Test, approximate maximum | 220 | °C | IEC 60695-10-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 235 | °C | ISO 75/Af |
| Relative Temp Index, Elec | 150 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 110 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 150 | °C | UL 746B |
| **PHYSICAL** | | | |
| Mold Shrinkage, flow, 24 hrs | 0.1 - 0.3 | % | ISO 294 |
| Density | 1.58 | g/cm³ | ISO 1183 |
| **ELECTRICAL** | | | |
| Hot Wire Ignition {PLC} | 0 | PLC Code | UL 746A |
| High Ampere Arc Ign, surface {PLC} | 0 | PLC Code | UL 746A |
| Comparative Tracking Index | 600 | V | IEC 60112 |
| **FLAME CHARACTERISTICS** | | | |
| UL Recognized, 94V-0 Flame Class Rating (3) | 0.8 | mm | UL 94 |
| Glow Wire Flammability Index 960°C, passes at | 0.8 | mm | IEC 60695-2-12 |
| Glow Wire Ignitability Temperature, 1.0 mm | 800 | °C | IEC 60695-2-13 |
| Glow Wire Ignitability Temperature, 1.5 mm | 825 | °C | IEC 60695-2-13 |

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| TYPICAL PROPERTIES [1] | TYPICAL VALUE | UNIT | STANDARD |
|---|---|---|---|
| **FLAME CHARACTERISTICS** | | | |
| Glow Wire Ignitability Temperature, 3.0 mm | 825 | °C | IEC 60695-2-13 |

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## LNP* Starflam* Compound RF0097E

## Europe-Africa-Middle East: COMMERCIAL

| PROCESSING PARAMETERS | TYPICAL VALUE | UNIT |
|---|---|---|
| **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 | 260 - 270 | °C |
| Middle - Zone 2 Temperature | 255 - 265 | °C |
| Rear - Zone 1 Temperature | 250 - 260 | °C |
| Mold Temperature | 60 - 100 | °C |
| Back Pressure | 0.2 - 0.3 | MPa |
| Screw Speed | 30 - 60 | rpm |

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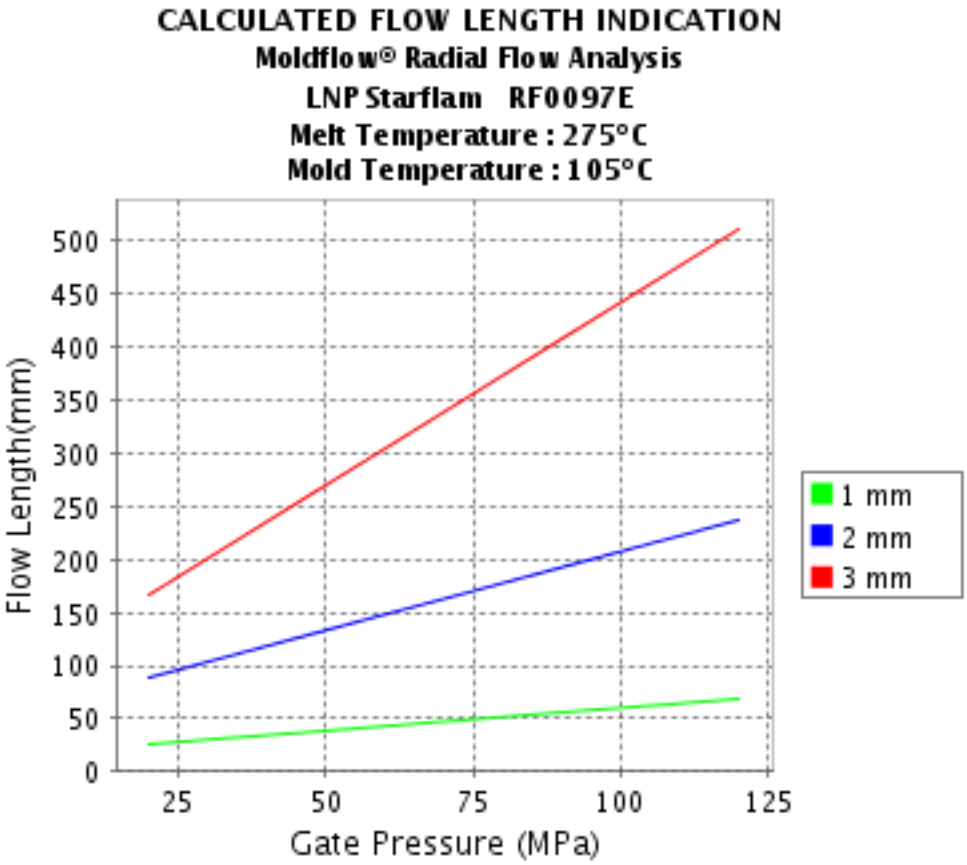


**Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative.**