

LNPT[™] THERMOCOMP[™] COMPOUND OF008E

OF-1008 EM
REGION ASIA

DESCRIPTION

LNP THERMOCOMP OF008E compound is based on linear Polyphenylene Sulfide (PPS) resin containing 40% glass fiber. Added features of this grade include: Easy Molding.

| GENERAL INFORMATION | |
|-----------------------|---|
| Features | Good Processability, High stiffness/Strength, No PFAS intentionally added |
| Fillers | Glass Fiber |
| Polymer Types | Polyphenylene Sulfide, Linear (PPS, Linear) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|----------------------------|--|
| Building and Construction | Building Component |
| Consumer | Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance |
| Electrical and Electronics | Mobile Phone - Computer - Tablets |
| Industrial | Electrical |

TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---------------------------------------|----------------|-------------------|--------------|
| MECHANICAL ⁽¹⁾ | | | |
| Tensile Stress, break | 178 | MPa | ASTM D638 |
| Tensile Strain, break | 1.7 | % | ASTM D638 |
| Flexural Stress | 248 | MPa | ASTM D790 |
| Flexural modulus | 14260 | MPa | ASTM D790 |
| Tensile Stress, break | 160 | MPa | ISO 527 |
| Tensile Strain, break | 1.2 | % | ISO 527 |
| Flexural Stress | 190 | MPa | ISO 178 |
| Flexural Modulus | 13400 | MPa | ISO 178 |
| IMPACT ⁽¹⁾ | | | |
| Izod Impact, unnotched, 23°C | 587 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 101 | J/m | ASTM D256 |
| Izod Impact, unnotched 80*10*4 +23°C | 21 | kJ/m ² | ISO 180/1U |
| Izod Impact, notched 80*10*4 +23°C | 6 | kJ/m ² | ISO 180/1A |
| THERMAL ⁽¹⁾ | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 261 | °C | ASTM D648 |
| CTE, -40°C to 40°C, flow | 2.6E-05 | 1/°C | ISO 11359-2 |
| HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm | 268 | °C | ISO 75/Af |
| PHYSICAL ⁽¹⁾ | | | |
| Density | 1.68 | g/cm ³ | ASTM D792 |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|--|-----------------------------|
| Mold Shrinkage, flow, 24 hrs ⁽²⁾ | 0.2 | % | ASTM D955 |
| Mold Shrinkage, xflow, 24 hrs ⁽²⁾ | 0.8 | % | ASTM D955 |
| Wear Factor Washer | 240 | 10 ⁻¹⁰ in ⁴ 5-min/ft-lb-hr | ASTM D3702 Modified: Manual |
| Dynamic COF | 0.66 | - | ASTM D3702 Modified: Manual |
| Static COF | 0.87 | - | ASTM D3702 Modified: Manual |
| FLAME CHARACTERISTICS | | | |
| UL Compliant, 94V-0 Flame Class Rating ⁽³⁾ | 0.45 | mm | UL 94 by SABIC-IP |

- (1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
- (2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
- (3) UL rating shown here is based on internal measurements.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

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