

LNPTM THERMOCOMPTM COMPOUND OF008G

OF-1008 MG

DESCRIPTION

LNP THERMOCOMP OF008G compound is based on linear Polyphenylene Sulfide (PPS) resin containing 15% glass fiber, 25% milled glass.

| GENERAL INFORMATION | |
|-----------------------|--|
| Features | High stiffness/Strength, No PFAS intentionally added |
| Fillers | Glass Fiber, Milled 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 20240711

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|--|----------------|-------|--------------|
| MECHANICAL ⁽¹⁾ | | | |
| Tensile Stress, brk, Type I, 5 mm/min | 104 | MPa | ASTM D638 |
| Tensile Strain, brk, Type I, 5 mm/min | 1.9 | % | ASTM D638 |
| Tensile Modulus, 5 mm/min | 8840 | MPa | ASTM D638 |
| Flexural Stress, brk, 1.3 mm/min, 50 mm span | 157 | MPa | ASTM D790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 9300 | MPa | ASTM D790 |
| IMPACT ⁽¹⁾ | | | |
| Izod Impact, unnotched, 23°C | 395 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 68 | J/m | ASTM D256 |
| PHYSICAL ⁽¹⁾ | | | |
| Mold Shrinkage, flow, 24 hrs ⁽²⁾ | 0.2 – 0.5 | % | ASTM D955 |
| Mold Shrinkage, xflow, 24 hrs ⁽²⁾ | 0.8 – 1 | % | ASTM D955 |
| INJECTION MOLDING ⁽³⁾ | | | |
| Drying Temperature | 120 – 150 | °C | |
| Drying Time | 4 | Hrs | |
| Melt Temperature | 315 – 320 | °C | |
| Front - Zone 3 Temperature | 330 – 345 | °C | |
| Middle - Zone 2 Temperature | 320 – 330 | °C | |
| Rear - Zone 1 Temperature | 305 – 315 | °C | |
| Mold Temperature | 140 – 165 | °C | |
| Back Pressure | 0.2 – 0.3 | MPa | |

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|-------------|----------------|-------|--------------|
| Screw Speed | 30 – 60 | rpm | |

- (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) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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