

LNPT[™] THERMOCOMP[™] COMPOUND AB002

AB-1002

REGION ASIA

DESCRIPTION

LNP THERMOCOMP AB002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% glass bead.

| GENERAL INFORMATION | |
|-----------------------|---|
| Features | Low Warpage, Dimensional stability, No PFAS intentionally added |
| Fillers | Glass Bead |
| Polymer Types | Acrylonitrile Butadiene Styrene (ABS) |
| 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 | 34 | MPa | ASTM D638 |
| Tensile Strain, break | 3.1 | % | ASTM D638 |
| Tensile Modulus, 50 mm/min | 2650 | MPa | ASTM D638 |
| IMPACT ⁽¹⁾ | | | |
| Izod Impact, unnotched, 23°C | 600 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 120 | J/m | ASTM D256 |
| PHYSICAL ⁽¹⁾ | | | |
| Density | 1.12 | g/cm ³ | ASTM D792 |
| Mold Shrinkage, flow, 24 hrs ⁽²⁾ | 0.7 | % | ASTM D955 |
| INJECTION MOLDING ⁽³⁾ | | | |
| Drying Temperature | 80 | °C | |
| Drying Time | 4 | Hrs | |
| Maximum Moisture Content | 0.05 – 0.1 | % | |
| Melt Temperature | 260 | °C | |
| Front - Zone 3 Temperature | 265 – 275 | °C | |
| Middle - Zone 2 Temperature | 230 – 245 | °C | |
| Rear - Zone 1 Temperature | 205 – 215 | °C | |
| Mold Temperature | 70 – 80 | °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.

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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