

LNPTM THERMOCOMPTM COMPOUND RF009H

FORMERLY KNOWN AS "RF-1009 EES HC"

DESCRIPTION

LNP THERMOCOMP RF009H compound is based on Nylon 6/6 resin containing 45% glass fiber. Added features of this grade include: Healthcare.

| GENERAL INFORMATION | |
|-----------------------|---|
| Features | Healthcare/Formula lock, High stiffness/Strength, No PFAS intentionally added |
| Fillers | Glass Fiber |
| Polymer Types | Polyamide 66 (Nylon 66) |
| Processing Techniques | Injection Molding |

| INDUSTRY | SUB INDUSTRY |
|------------------------|---|
| Hygiene and Healthcare | Pharmaceutical Packaging and Drug Delivery, Surgical devices, General Healthcare, Patient Testing |
| Packaging | Industrial Packaging |

TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------|--------------|
| MECHANICAL (1) | | | |
| Tensile Stress, break | 217 | MPa | ASTM D638 |
| Tensile Strain, break | 2.8 | % | ASTM D638 |
| Flexural Stress | 324 | MPa | ASTM D790 |
| IMPACT (1) | | | |
| Izod Impact, unnotched, 23°C | 1345 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 144 | J/m | ASTM D256 |
| THERMAL (1) | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 254 | °C | ASTM D648 |
| PHYSICAL (1) | | | |
| Density | 1.53 | g/cm³ | ASTM D792 |
| Mold Shrinkage, flow, 24 hrs ⁽²⁾ | 0.3 | % | ASTM D955 |
| INJECTION MOLDING (3) | | | |
| 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 | |



- (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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