

LNP Thermocomp® UF-1009 HS Polyphthalamide, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

Forms: Pellets Processing Method: Injection Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LNP-Thermocomp-UF-1009-HS-Polyphthalamide-Glass-Fiber-Reinforcement-nbspdiscontinued.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|--------------|----------------------|
| Specific Gravity | 1.64 g/cc | 1.64 g/cc | Method A; ASTM D792 |
| Water Absorption | 0.20 % | 0.20 % | at 24 hrs; ASTM D570 |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | ASTM D955 |
| Linear Mold Shrinkage, Transverse | 0.0050 cm/cm | 0.0050 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|---------------------------------|--------------------------------------|---------------------------------|
| Tensile Strength at Break | 242 MPa | 35100 psi | ASTM D638 |
| Tensile Strength, Yield | 242 MPa | 35100 psi | ASTM D638 |
| Elongation at Break | 1.7 % | 1.7 % | ASTM D638 |
| Elongation at Yield | 1.7 % | 1.7 % | ASTM D638 |
| Tensile Modulus | 20.4 GPa | 2960 ksi | ASTM D638 |
| Flexural Strength | 386 MPa | 56000 psi | ASTM D790 |
| Flexural Modulus | 18.8 GPa | 2730 ksi | ASTM D790 |
| Izod Impact, Notched | 1.71 J/cm @Thickness 3.18 mm | 3.20 ft-lb/in @Thickness 0.125 in | ASTM D256 |
| Izod Impact, Unnotched | 13.5 J/cm @Thickness 3.18 mm | 25.3 ft-lb/in @Thickness 0.125 in | ASTM D256 |
| Izod Impact, Notched (ISO) | 14.8 kJ/m ² | 7.04 ft-lb/in ² | ISO 180 |
| Izod Impact, Unnotched (ISO) | 82.9 kJ/m ² | 39.4 ft-lb/in ² | ISO 180 |
| Falling Dart Impact | 15.6 J | 11.5 ft-lb | ASTM D3763 |
| | 4.37 J | 3.22 ft-lb | Multi-Axial Instrumented Impact |

| Mechanical Properties | Metric | English | Comments |
|---|---------------|----------------|---------------------------|
| | | | Energy: ISO 6603-2 |
| Thermal Properties | Metric | English | Comments |
| Deflection Temperature at 1.8 MPa (264 psi) | 258 °C | 496 °F | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|------------------------------|-------------------|-----------------|-----------------|
| Melt Temperature | 316 - 329 °C | 601 - 624 °F | |
| Mold Temperature | 135 - 163 °C | 275 - 325 °F | |
| Drying Temperature | 121 - 149 °C | 250 - 300 °F | |
| Dry Time | 4 hour | 4 hour | |
| Moisture Content | 0.15 % | 0.15 % | Suggested |
| Back Pressure | 0.172 - 0.345 MPa | 24.9 - 50.0 psi | |

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