

SABIC Innovative Plastics LNP THERMOTUF V1000 PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOTUF* V1000 is a compound based on Nylon resin. Added features of this material include: High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOTUF-V1000-PA-66.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------|----------------------------|------------------------------------|
| Density | 1.07 g/cc | 0.0387 lb/in ³ | ISO 1183 |
| | 1.073 g/cc | 0.03876 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.800 % | 0.800 % | 50% RH, 24 hrs; ASTM D570 |
| | 1.37 % | 1.37 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.013 - 0.015 cm/cm | 0.013 - 0.015 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.013 - 0.015 cm/cm | 0.013 - 0.015 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.013 - 0.015 cm/cm | 0.013 - 0.015 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.013 - 0.015 cm/cm | 0.013 - 0.015 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|----------|-------------------|
| Tensile Strength at Break | 50.0 MPa | 7250 psi | ASTM D638 |
| | 50.0 MPa | 7250 psi | ISO 527 |
| Tensile Strength, Yield | 44.0 MPa | 6380 psi | ISO 527 |
| | 45.0 MPa | 6530 psi | ASTM D638 |
| Elongation at Break | 60.3 % | 60.3 % | ASTM D638 |
| | 168.1 % | 168.1 % | ISO 527 |
| Elongation at Yield | 4.6 % | 4.6 % | ASTM D638 |
| | 17.1 % | 17.1 % | ISO 527 |
| Tensile Modulus | 1.80 GPa | 261 ksi | 1 mm/min; ISO 527 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---|
| Flexural Strength | 64.0 MPa | 9280 psi | ISO 178 |
| | 74.0 MPa | 10700 psi | ASTM D790 |
| Flexural Modulus | 1.70 GPa | 247 ksi | ISO 178 |
| | 1.93 GPa | 280 ksi | ASTM D790 |
| Izod Impact, Notched (ISO) | 84.0 kJ/m ² | 40.0 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 137 kJ/m ² | 65.2 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 56.0 J | 41.3 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 77.0 J | 56.8 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|---|---|--|----------------------------------|
| CTE, linear, Parallel to Flow | 127 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 70.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| | 127 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 70.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 126 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 70.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ASTM E 831 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| | 126 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 70.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$ | @Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 1.8 MPa (264 psi) | 56.0 $\text{Å}^\circ\text{C}$ | 133 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 53.0 $\text{Å}^\circ\text{C}$ | 127 $\text{Å}^\circ\text{F}$ | |
| | @Thickness 3.20 mm | @Thickness 0.126 in | unannealed; ASTM D648 |

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