

SABIC Innovative Plastics LNP THERMOCOMP PF008 PA 6 (Asia Pacific)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF008 is a compound based on Nylon 6 resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF008-PA-6-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|------------------------------------|
| Density | 1.46 g/cc | 0.0527 lb/in ³ | ISO 1183 |
| | 1.47 g/cc | 0.0531 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.980 % | 0.980 % | 50% RH, 24 hrs; ASTM D570 |
| | 1.26 % | 1.26 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0020 - 0.0040 cm/cm | 0.0020 - 0.0040 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0060 - 0.0080 cm/cm | 0.0060 - 0.0080 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 183 MPa | 26500 psi | ASTM D638 |
| | 186 MPa | 27000 psi | ISO 527 |
| Elongation at Break | 3.3 % | 3.3 % | ASTM D638 |
| | 3.3 % | 3.3 % | ISO 527 |
| Tensile Modulus | 12.67 GPa | 1838 ksi | 50 mm/min; ASTM D638 |
| | 12.99 GPa | 1884 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 278 MPa | 40300 psi | ASTM D790 |
| | 278 MPa | 40300 psi | ISO 178 |
| Flexural Modulus | 9.25 GPa | 1340 ksi | ASTM D790 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|--|
| Izod Impact, Notched | 1.33 J/cm | 2.49 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 17.0 kJ/m ² | 8.09 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 92.0 kJ/m ² | 43.8 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 25.0 J | 18.4 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 21.0 J | 15.5 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|-------------------------------|--------------------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 208 Â°C | 406 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 195 Â°C @Thickness 3.20 mm | 383 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

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