

SABIC Innovative Plastics LNP THERMOCOMP NF001XXX PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* PCA-F-1001 is a compound based on PC+ABS resin containing 5% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-NF001XXX-PCABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------------|---------------------------|------------------------------------|
| Density | 1.18 g/cc | 0.0426 lb/in ³ | ISO 1183 |
| | 1.19 g/cc | 0.0430 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.170 % | 0.170 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.250 % | 0.250 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0030 - 0.0050 cm/cm | 0.0030 - 0.0050 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|-----------------------------------|
| Tensile Strength at Break | 49.0 MPa | 7110 psi | Type I, 5 mm/min; ASTM D638 |
| | 51.0 MPa | 7400 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 62.0 MPa | 8990 psi | 5 mm/min; ISO 527 |
| | 63.0 MPa | 9140 psi | Type I, 5 mm/min; ASTM D638 |
| Elongation at Break | 5.3 % | 5.3 % | 5 mm/min; ISO 527 |
| | 6.2 % | 6.2 % | Type I, 5 mm/min; ASTM D638 |
| Elongation at Yield | 3.4 % | 3.4 % | Type I, 5 mm/min; ASTM D638 |
| | 3.4 % | 3.4 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 3.30 GPa | 479 ksi | 1 mm/min; ISO 527 |
| | 3.47 GPa | 503 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 94.0 MPa | 13600 psi | ISO 178 |
| Flexural Yield Strength | 102 MPa | 14800 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Flexural Modulus Mechanical Properties | 3.12 GPa Metric | 453 ksi English | 2 mm/min: ISO 178 Comments |
|---|------------------------------------|-------------------------------------|-----------------------------------|
| | 3.22 GPa | 467 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 1.52 J/cm | 2.85 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 6.05 J/cm | 11.3 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 13.0 kJ/m ² | 6.19 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 37.0 kJ/m ² | 17.6 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 35.0 J @Temperature 23.0 Â°C | 25.8 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 21.0 J | 15.5 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|--|--|-----------------------------------|
| CTE, linear, Parallel to Flow | 53.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 29.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| CTE, linear, Transverse to Flow | 82.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 45.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 134 Â°C | 273 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 136 Â°C @Thickness 3.20 mm | 277 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 Â°C | 248 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/ Af |
| | 123 Â°C @Thickness 3.20 mm | 253 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China