

SABIC Innovative Plastics LNP THERMOCOMP WFB62 PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP* THERMOCOMP* WFB62 is a compound based on PBT resin containing 10% Glass Fiber, 10% Glass Bead. Added feature of this grade is: Low Warpage.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WFB62-PBT.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------|---------------------------|---------------------------|
| Specific Gravity | 1.60 g/cc | 1.60 g/cc | ASTM D792 |
| Density | 1.60 g/cc | 0.0578 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.0300 % | 0.0300 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.0500 % | 0.0500 % | 23°C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | >= 0.020 cm/cm | >= 0.020 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.010 - 0.030 cm/cm | 0.010 - 0.030 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|----------|-----------|-----------------------------------|
| Tensile Strength at Break | 76.0 MPa | 11000 psi | Type I, 5 mm/min; ASTM D638 |
| | 76.0 MPa | 11000 psi | 5 mm/min; ISO 527 |
| Tensile Strength, Yield | 77.0 MPa | 11200 psi | Type I, 5 mm/min; ASTM D638 |
| | 77.0 MPa | 11200 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 3.0 % | 3.0 % | Type I, 5 mm/min; ASTM D638 |
| | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Elongation at Yield | 3.0 % | 3.0 % | Type I, 5 mm/min; ASTM D638 |
| | 3.0 % | 3.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 6.06 GPa | 879 ksi | 5 mm/min; ASTM D638 |
| | 6.15 GPa | 892 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 126 MPa | 18300 psi | ISO 178 |
| | 128 MPa | 18600 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| Flexural Yield Strength | 130 MPa | 18900 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 5.67 GPa | 822 ksi | 2 mm/min; ISO 178 |
| | 5.73 GPa | 831 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 0.300 J/cm | 0.562 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 2.77 J/cm | 5.19 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 3.00 kJ/m ² | 1.43 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 17.0 kJ/m ² | 8.09 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 5.00 J @Temperature 23.0 Â°C | 3.69 ft-lb @Temperature 73.4 Â°F | ASTM D3763 |
| Impact Test | 1.00 J | 0.738 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|--|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 51.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 28.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| CTE, linear, Transverse to Flow | 59.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C | 32.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F | ASTM D696 |
| Deflection Temperature at 0.46 MPa (66 psi) | 207 Â°C | 405 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| | 216 Â°C @Thickness 3.20 mm | 421 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 167 Â°C | 333 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 185 Â°C @Thickness 3.20 mm | 365 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