

SABIC Innovative Plastics LNP THERMOCOMP WH0450EX PBT (Asia Pacific)

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

Material Notes:

LNP* Thermocomp* WH0450EX is a compound based on Polybutylene Terephthalate resin containing High Specific Gravity Filler. Added features of this material include: High Specific Gravity.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-WH0450EX-PBT-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|--------------------------|-----------|
| Density | 4.50 g/cc | 0.163 lb/in ³ | ASTM D792 |
| | 4.50 g/cc | 0.163 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0070 cm/cm | 0.0070 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0080 cm/cm | 0.0080 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|----------|----------------------|
| Tensile Strength at Break | 28.0 MPa | 4060 psi | ASTM D638 |
| | 33.0 MPa | 4790 psi | ISO 527 |
| Tensile Strength, Yield | 29.0 MPa | 4210 psi | ISO 527 |
| | 30.0 MPa | 4350 psi | ASTM D638 |
| Elongation at Break | 0.30 % | 0.30 % | ASTM D638 |
| | 0.40 % | 0.40 % | ISO 527 |
| Elongation at Yield | 0.30 % | 0.30 % | ASTM D638 |
| | 0.30 % | 0.30 % | ISO 527 |
| Tensile Modulus | 9.64 GPa | 1400 ksi | 1 mm/min; ISO 527 |
| | 14.39 GPa | 2087 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 54.0 MPa | 7830 psi | ISO 178 |
| | 55.0 MPa | 7980 psi | ASTM D790 |
| Flexural Modulus | 11.48 GPa | 1665 ksi | ISO 178 |
| | 11.7 GPa | 1700 ksi | ASTM D790 |

| Mechanical Properties | Metric /cm | English -lb/in | Comments |
|------------------------------|------------------------|----------------------------|--|
| Izod Impact, Unnotched | 1.08 J/cm | 2.02 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 5.00 kJ/m ² | 2.38 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 9.00 kJ/m ² | 4.28 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 4.00 J | 2.95 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |

| Thermal Properties | Metric | English | Comments |
|--|------------------------------|-------------------------------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 173 °C | 343 °F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 182 °C @Thickness 3.20 mm | 360 °F @Thickness 0.126 in | unannealed; ASTM D648 |

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