

SABIC Innovative Plastics LNP THERMOCOMP JF004E PES (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* Thermocomp* JF004E is a compound based on Polyethersulfone resin containing Glass Fiber. Added features of this material include:
Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF004E-PES-Europe-Africa-Middle-East.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|------------------------------|
| Density | 1.51 g/cc | 0.0546 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0025 - 0.0045 cm/cm | 0.0025 - 0.0045 in/in | on Tensile Bar; SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 128 MPa | 18600 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 2.5 % | 2.5 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 7.10 GPa | 1030 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 178 MPa | 25800 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 6.00 GPa | 870 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² | 2.86 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 30.0 kJ/m ² | 14.3 ft-lb/in ² | 80*10*4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--|--|----------------------------------|
| CTE, linear, Parallel to Flow | 24.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 13.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| CTE, linear, Transverse to Flow | 55.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ | 30.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$ | @Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 223 $\text{Å}^\circ\text{C}$ | 433 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | 218 $\text{Å}^\circ\text{C}$ | 424 $\text{Å}^\circ\text{F}$ | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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