

SABIC Innovative Plastics LNP THERMOCOMP JF006 PES

Category : Polymer , Thermoplastic , Polyethersulfone (PES)

Material Notes:

LNP* THERMOCOMP* JF006 is a compound based on Polyethersulfone resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-JF006-PES.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|----------------------------|------------------------------------|
| Density | 1.58 g/cc | 0.0571 lb/in ³ | ISO 1183 |
| | 1.584 g/cc | 0.05723 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.340 % | 0.340 % | 50% RH, 24 hrs; ASTM D570 |
| | 0.460 % | 0.460 % | 23 ^o C / 50% RH; ISO 62 |
| Linear Mold Shrinkage, Flow | 0.0027 cm/cm | 0.0027 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0048 cm/cm | 0.0048 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| | 0.0050 cm/cm | 0.0050 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|----------------------|
| Tensile Strength at Break | 136 MPa | 19700 psi | ISO 527 |
| | 142 MPa | 20600 psi | ASTM D638 |
| Elongation at Break | 2.1 % | 2.1 % | ISO 527 |
| | 2.2 % | 2.2 % | ASTM D638 |
| Tensile Modulus | 9.45 GPa | 1370 ksi | 1 mm/min; ISO 527 |
| | 10.75 GPa | 1559 ksi | 50 mm/min; ASTM D638 |
| Flexural Strength | 207 MPa | 30000 psi | ISO 178 |
| | 210 MPa | 30500 psi | ASTM D790 |
| Flexural Modulus | 9.72 GPa | 1410 ksi | ASTM D790 |

| Mechanical Properties | 10.0 GPa Metric | 1450 lbf English | ISO 178 Comments |
|----------------------------------|---|---|--|
| Izod Impact, Notched | 0.960 J/cm | 1.80 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 6.14 J/cm | 11.5 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 9.00 kJ/m ² | 4.28 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 40.0 kJ/m ² | 19.0 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 10.0 J | 7.38 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 4.00 J | 2.95 ft-lb | Multiaxial Impact; ISO 6603 |
| Coefficient of Friction, Dynamic | 0.52 | 0.52 | ASTM D3702 Modified |
| Coefficient of Friction, Static | 0.57 | 0.57 | ASTM D3702 Modified |
| K (wear) Factor | 342 x 10 ⁻⁸ mm ³ /N-M | 170 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr | Washer; ASTM D3702 Modified |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|---------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow | 30.6 Åµm/m-Å°C | 17.0 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| | 31.1 Åµm/m-Å°C | 17.3 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| CTE, linear, Transverse to Flow | 36.0 Åµm/m-Å°C | 20.0 Åµin/in-Å°F | ASTM E 831 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| | 37.3 Åµm/m-Å°C | 20.7 Åµin/in-Å°F | ISO 11359-2 |
| | @Temperature -40.0 - 40.0 Å°C | @Temperature -40.0 - 104 Å°F | |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 Å°C | 410 Å°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 210 Å°C @Thickness 3.20 mm | 410 Å°F @Thickness 0.126 in | unannealed; ASTM D648 |

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