

SABIC Innovative Plastics LNP THERMOCOMP DF006P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF006P is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material include: Exceptional Processing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF006P-PC.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|-----------------|----------------------------|---------------------------|
| Density | 1.42 g/cc | 0.0513 lb/in ³ | ISO 1183 |
| | 1.424 g/cc | 0.05145 lb/in ³ | ASTM D792 |
| Moisture Absorption | 0.100 % | 0.100 % | 50% RH, 24 hrs; ASTM D570 |
| Linear Mold Shrinkage, Flow | 0.00090 cm/cm | 0.00090 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0015 cm/cm | 0.0015 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0051 cm/cm | 0.0051 in/in | ISO 294 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Transverse | 0.0067 cm/cm | 0.0067 in/in | ASTM D955 |
| | @Time 86400 sec | @Time 24.0 hour | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------|-----------|-----------------------------------|
| Tensile Strength at Break | 124 MPa | 18000 psi | Type I, 5 mm/min; ASTM D638 |
| | 125 MPa | 18100 psi | |
| Tensile Strength, Yield | 124 MPa | 18000 psi | Type I, 5 mm/min; ASTM D638 |
| | 125 MPa | 18100 psi | |
| Elongation at Break | 2.4 % | 2.4 % | Type I, 5 mm/min; ASTM D638 |
| | 2.4 % | 2.4 % | |
| Elongation at Yield | 2.4 % | 2.4 % | Type I, 5 mm/min; ASTM D638 |
| | 2.4 % | 2.4 % | |
| Tensile Modulus | 10.01 GPa | 1452 ksi | 1 mm/min; ISO 527 |
| | 10.48 GPa | 1520 ksi | |
| Flexural Strength | 165 MPa | 23900 psi | 1.3 mm/min, 50 mm span; ASTM D790 |

| Mechanical Properties | Metric ^{SI} | English ^{psi} | Comments |
|------------------------------|------------------------|----------------------------|---|
| Flexural Modulus | 8.72 GPa | 1260 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 1.12 J/cm | 2.10 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 7.74 J/cm | 14.5 ft-lb/in | ASTM D4812 |
| Izod Impact, Notched (ISO) | 10.0 kJ/m ² | 4.76 ft-lb/in ² | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 47.0 kJ/m ² | 22.4 ft-lb/in ² | 80*10*4; ISO 180/1U |
| Dart Drop, Total Energy | 13.0 J | 9.59 ft-lb | Instrumented Impact Energy @ peak; ASTM D3763 |
| Impact Test | 2.00 J | 1.48 ft-lb | Multiaxial Impact; ISO 6603 |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|--------------------------------|----------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 134 Â°C @Thickness 3.20 mm | 273 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 134 Â°C | 273 Â°F | Flatw 80*10*4 sp=64mm; ISO 75/Af |
| | 131 Â°C @Thickness 3.20 mm | 268 Â°F @Thickness 0.126 in | unannealed; ASTM D648 |
| Flammability, UL94 | V-2 @Thickness 1.50 mm | V-2 @Thickness 0.0591 in | UL 94 by SABIC-IP |
| | V-0 @Thickness 3.00 mm | V-0 @Thickness 0.118 in | UL 94 by SABIC-IP |

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