

SABIC Innovative Plastics LNP THERMOCOMP DF006HL PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DF006HL is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material include: Low Extractible, Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF006HL-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5 mm/min; ISO 527
	114 MPa	16500 psi	Type I, 5 mm/min; ASTM D638
	126 MPa	18300 psi	ASTM D638
Tensile Strength, Yield	110 MPa	16000 psi	5 mm/min; ISO 527
	115 MPa	16700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.7 %	2.7 %	ASTM D638
	3.0 %	3.0 %	5 mm/min; ISO 527
	3.2 %	3.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
	2.8 %	2.8 %	5 mm/min; ISO 527
Tensile Modulus	7.80 GPa	1130 ksi	1 mm/min; ISO 527
	8.34 GPa	1210 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric ^{MPa}	English ^{psi}	Comments
	180 MPa	26100 psi	1.3 mm/min, 50 mm span; ASTM D790
	199 MPa	28900 psi	ASTM D790
Flexural Yield Strength	183 MPa	26500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	7.20 GPa	1040 ksi	2 mm/min; ISO 178
	7.50 GPa	1090 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.35 GPa	1210 ksi	ASTM D790
Izod Impact, Notched	1.67 J/cm	3.13 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.30 J/cm	15.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ^Å ²	7.14 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ^Å ²	24.7 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	27.0 J @Temperature 23.0 Å°C	19.9 ft-lb @Temperature 73.4 Å°F	ASTM D3763
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	17.8 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
CTE, linear, Transverse to Flow	69.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	38.3 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	147 Å°C	297 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 Å°C @Thickness 3.20 mm	297 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 Å°C	289 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	144 Å°C @Thickness 3.20 mm	291 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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