

## SABIC Innovative Plastics LNP THERMOCOMP DC006H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* THERMOCOMP\* DC006H is a compound based on Polycarbonate resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive, Healthcare.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DC006H-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DC006H-PC.php)

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ASTM D792
	1.33 g/cc	0.0480 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00080 cm/cm	0.00080 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0033 cm/cm	0.0033 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ASTM D638
	141 MPa	20500 psi	
Tensile Strength, Yield	140 MPa	20300 psi	ASTM D638
	141 MPa	20500 psi	
Elongation at Break	1.7 %	1.7 %	ISO 527
	1.8 %	1.8 %	
Elongation at Yield	1.7 %	1.7 %	ISO 527
	1.8 %	1.8 %	
Tensile Modulus	15.78 GPa	2289 ksi	1 mm/min; ISO 527

Mechanical Properties	15.85 GPa Metric	2299 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	192 MPa	27800 psi	ISO 178
	193 MPa	28000 psi	ASTM D790
Flexural Modulus	14.3 GPa	2070 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.71 J/cm	10.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	44.0 kJ/m <sup>2</sup>	20.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	11.0 J	8.11 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	43.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	24.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	44.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	24.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	19.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	20.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	148 $\text{Å}^\circ\text{C}$	298 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 $\text{Å}^\circ\text{C}$	297 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 $\text{Å}^\circ\text{C}$	289 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	142 $\text{Å}^\circ\text{C}$	288 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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