

SABIC Innovative Plastics LNP THERMOCOMP DC006 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DC006 is a compound based on Polycarbonate resin containing Carbon Fiber. This product is also known as Thermocomp* DC-1006.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DC006-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.00090 cm/cm	0.00090 in/in	SABIC Method
	0.0010 - 0.0020 cm/cm @Time 86400 sec	0.0010 - 0.0020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0033 cm/cm	0.0033 in/in	SABIC Method
	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D638
	141 MPa	20500 psi	5 mm/min; ISO 527
Tensile Strength, Yield	141 MPa	20500 psi	Type I, 5 mm/min; ASTM D638
	141 MPa	20500 psi	5 mm/min; ISO 527
Elongation at Break	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.8 %	1.8 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.78 GPa	2289 ksi	1 mm/min; ISO 527
	15.87 GPa	2302 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	192 MPa	27800 psi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	14.3 GPa	2070 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 ft-lb/in	ASTM D4812
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)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.0 Åµm/m-Å°C	13.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	44.0 Åµm/m-Å°C	24.4 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
CTE, linear, Transverse to Flow	11.0 Åµm/m-Å°C	6.11 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	20.0 Åµm/m-Å°C	11.1 Åµin/in-Å°F	ISO 11359-2
	@Temperature 23.0 - 60.0 Å°C	@Temperature 73.4 - 140 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	148 Å°C	298 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 Å°C	297 Å°F	
	@Thickness 3.20 mm	@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
	142 Å°C	288 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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