

SABIC Innovative Plastics LNP THERMOCOMP DC006ER PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DC006ER is a compound based on Polycarbonate resin containing 30% Carbon Fiber. Added features of this material include: Easy Molding, Mold Release, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DC006ER-PC.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00040 - 0.0010 cm/cm	0.00040 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.00040 - 0.0013 cm/cm	0.00040 - 0.0013 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0035 - 0.0040 cm/cm	0.0035 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	148 MPa	21500 psi	ISO 527
	150 MPa	21800 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ISO 527
	1.9 %	1.9 %	ASTM D638
Tensile Modulus	16.7 GPa	2420 ksi	1 mm/min; ISO 527
	19.58 GPa	2840 ksi	50 mm/min; ASTM D638
Flexural Strength	220 MPa	31900 psi	ASTM D790
	226 MPa	32800 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	14.34 GPa	2109 ksi	ASTM D790
	16.5 GPa	2390 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.80 J/cm	8.99 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/mÂ²	15.2 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.1 Âµm/m-Â°C	15.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	27.1 Âµm/m-Â°C	15.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	27.8 Âµm/m-Â°C	15.4 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	27.9 Âµm/m-Â°C	15.5 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C	289 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C	286 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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