

SABIC Innovative Plastics LNP THERMOCOMP DF004P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DF004P is a compound based on Polycarbonate resin containing 20% 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-DF004P-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.190 %	0.190 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0023 cm/cm	0.0023 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0067 cm/cm	0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	ISO 527
	104 MPa	15100 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.2 %	3.2 %	ISO 527
Tensile Modulus	6.05 GPa	877 ksi	1 mm/min; ISO 527
	6.19 GPa	898 ksi	50 mm/min; ASTM D638
Flexural Strength	162 MPa	23500 psi	ISO 178
	172 MPa	24900 psi	ASTM D790
Flexural Modulus	5.99 GPa	869 ksi	ISO 178

Mechanical Properties	6.17 GPa Metric	895 ksi English	ASTM D790 Comments
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.10 J/cm	13.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/mÂ²	22.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 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
CTE, linear, Parallel to Flow	33.4 Âµm/m-Â°C	18.6 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	33.5 Âµm/m-Â°C	18.6 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	54.5 Âµm/m-Â°C	30.3 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	68.9 Âµm/m-Â°C	38.3 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 Â°C	280 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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