

SABIC Innovative Plastics LNP THERMOCOMP DF004ER PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DF004ER is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features of this material include: Easy Molding. Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF004ER-PC.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
	1.322 g/cc	0.04776 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.170 %	0.170 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0043 - 0.0050 cm/cm	0.0043 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.0 MPa	13900 psi	ASTM D638
	96.0 MPa	13900 psi	ISO 527
Elongation at Break	3.7 %	3.7 %	ASTM D638
	3.8 %	3.8 %	ISO 527
Tensile Modulus	5.62 GPa	815 ksi	1 mm/min; ISO 527
	5.65 GPa	819 ksi	50 mm/min; ASTM D638
Flexural Strength	166 MPa	24100 psi	ASTM D790
	166 MPa	24100 psi	ISO 178

Flexural Modulus Mechanical Properties	5.58 GPa Metric	809 ksi English	ASTM D790 Comments
	5.75 GPa	834 ksi	ISO 178
Izod Impact, Notched	1.44 J/cm	2.70 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.54 J/cm	16.0 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	53.0 kJ/m ²	25.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	6.00 J	4.43 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.8 Åµm/m-Å°C	23.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	41.9 Åµm/m-Å°C	23.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	53.6 Åµm/m-Å°C	29.8 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	53.7 Åµm/m-Å°C	29.8 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	141 Å°C	286 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 Å°C	284 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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