

SABIC Innovative Plastics LNP THERMOCOMP DF0069P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF0069P is a compound based on Polycarbonate resin containing 30% Glass Fiber. Added features of this material include: Exceptional Processing. Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DF0069P-PC.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	119 MPa	17300 psi	5 mm/min; ISO 527
	127 MPa	18400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	9.10 GPa	1320 ksi	1 mm/min; ISO 527
	9.71 GPa	1410 ksi	50 mm/min; ASTM D638
Flexural Strength	196 MPa	28400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	8.48 GPa	1230 ksi	2 mm/min; ISO 178
	9.02 GPa	1310 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.55 J/cm	14.1 ft-lb/in	ASTM D4812

Izod Impact Notched (ISO) Mechanical Properties	10.0 kJ/m ² Metric	4.75 ft-lb/in ² English	80*10*4- ISO 180/1A Comments
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	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	27.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	15.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	45.3 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	25.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 Â°C @Thickness 3.20 mm	282 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 Â°C	277 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 Â°C @Thickness 3.20 mm	275 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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