

SABIC Innovative Plastics LNP THERMOCOMP DF0029P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP® DF0029P is a compound based on Polycarbonate resin containing 10% 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-DF0029P-PC.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
	1.318 g/cc	0.04762 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0042 cm/cm	0.0042 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0048 cm/cm	0.0048 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	92.0 MPa	13300 psi	ASTM D638
	93.0 MPa	13500 psi	ISO 527
Elongation at Break	3.8 %	3.8 %	ASTM D638
	3.8 %	3.8 %	ISO 527
Tensile Modulus	4.61 GPa	669 ksi	50 mm/min; ASTM D638
	4.80 GPa	696 ksi	1 mm/min; ISO 527
Flexural Strength	155 MPa	22500 psi	ASTM D790
	158 MPa	22900 psi	ISO 178
Flexural Modulus	4.68 GPa	679 ksi	ASTM D790
	5.00 GPa	725 ksi	ISO 178

Izod Impact Notched Mechanical Properties	0.420 J/cm Metric	0.787 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.05 J/cm	7.59 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.640 mm	V-0 @Thickness 0.0252 in	UL 94 by SABIC-IP

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