

SABIC Innovative Plastics LNP THERMOCOMP DX05477 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP THERMOCOMP* DX05477 is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Easy Molding, Mold Release, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX05477-PC.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
	1.271 g/cc	0.04592 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0059 cm/cm	0.0059 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	ASTM D638
	69.0 MPa	10000 psi	ISO 527
Tensile Strength, Yield	62.0 MPa	8990 psi	ASTM D638
	70.0 MPa	10200 psi	ISO 527
Elongation at Break	4.4 %	4.4 %	ISO 527
	7.4 %	7.4 %	ASTM D638
Elongation at Yield	3.8 %	3.8 %	ISO 527
	4.2 %	4.2 %	ASTM D638
Tensile Modulus	2.82 GPa	409 ksi	50 mm/min; ASTM D638
	3.60 GPa	522 ksi	1 mm/min; ISO 527

Flexural Strength Mechanical Properties	119 MPa Metric	17300 psi English	ASTM D790 Comments
	120 MPa	17400 psi	ISO 178
Flexural Modulus	3.44 GPa	499 ksi	ASTM D790
	3.70 GPa	537 ksi	ISO 178
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	5.00 J	3.69 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C @Thickness 3.20 mm	293 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
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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