

SABIC Innovative Plastics LNP THERMOCOMP DX07408 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* DX07408 is a compound based on Polycarbonate containing Proprietary Filler(s). Added feature of this grade is: UL Rated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX07408-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.150 %	0.150 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
	126 MPa	18300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	120 MPa	17400 psi	Type I, 5 mm/min; ASTM D638
	126 MPa	18300 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	10.04 GPa	1456 ksi	1 mm/min; ISO 527
	10.36 GPa	1503 ksi	5 mm/min; ASTM D638
Flexural Strength	172 MPa	24900 psi	ISO 178
	179 MPa	26000 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	179 MPa	26000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.10 GPa	1320 ksi	2 mm/min; ISO 178
	9.57 GPa	1390 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.81 J/cm	10.9 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 °C	12.5 ft-lb @Temperature 73.4 °F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	21.0 µm/m-°C @Temperature -30.0 - 30.0 °C	11.7 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
CTE, linear, Transverse to Flow	55.0 µm/m-°C @Temperature -30.0 - 30.0 °C	30.6 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	139 °C	282 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 °C @Thickness 3.20 mm	282 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	134 °C	273 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	135 °C @Thickness 3.20 mm	275 °F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP

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