

SABIC Innovative Plastics LNP THERMOCOMP D7002IXH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* D7002IXH is a compound based on Polycarbonate siloxane copolymer resin containing proprietary antimicrobial additives. Designed for touch surfaces, housings, etc., in healthcare and consumer applications. Added features include: low antimicrobial performance, high impact, healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-D7002IXH-PC.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	5 mm/min; ISO 527
	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	48.0 MPa	6960 psi	5 mm/min; ISO 527
	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	90 %	90 %	Type I, 5 mm/min; ASTM D638
	100 %	100 %	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	Type I, 5 mm/min; ASTM D638
	5.2 %	5.2 %	5 mm/min; ISO 527
Tensile Modulus	2.25 GPa	326 ksi	1 mm/min; ISO 527
	2.30 GPa	334 ksi	5 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Flexural Yield Strength	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.25 GPa	326 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	7.20 J/cm	13.5 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	60.0 J @Temperature 23.0 Â°C	44.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	50.0 J	36.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	69.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	125 Â°C	257 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	130 Â°C @Thickness 3.20 mm	266 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Â°C	230 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	115 Â°C @Thickness 3.20 mm	239 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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