

SABIC Innovative Plastics LNP THERMOCOMP D7001IXH PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* THERMOCOMP* D7001IXH is a compound based on Polycarbonate siloxane copolymer resin containing proprietary antimicrobial additives. Designed for touch surfaces in patient critical healthcare applications. Added features include: high antimicrobial performance, high impact, healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-D7001IXH-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	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	94 %	94 %	Type I, 5 mm/min; ASTM D638
	130 %	130 %	5 mm/min; ISO 527
Elongation at Yield	5.7 %	5.7 %	5 mm/min; ISO 527
	5.8 %	5.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	1 mm/min; ISO 527
	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ISO 178
Flexural Yield Strength	82.0 MPa	11900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	7.80 J/cm	14.6 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	70.0 J @Temperature 23.0 Â°C	51.6 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	60.0 J	44.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	71.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	39.4 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)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	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)	126 Â°C	259 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	128 Â°C @Thickness 3.20 mm	262 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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