

SABIC Innovative Plastics LNP THERMOCOMP 67001XXH PBT+PC

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

LNP* THERMOCOMP* 67001XXH is a compound based on PC + PBT resin containing proprietary antimicrobial additives. Designed for touch surfaces in patient critical healthcare applications. Added features include: High antimicrobial performance, high impact, heat and chemical resistance. Improved retention of mechanical properties under UV exposure.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-67001XXH-PBTPC.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 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	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Tensile Strength, Yield	53.0 MPa	7690 psi	5 mm/min; ISO 527
	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	110 %	110 %	Type I, 5 mm/min; ASTM D638
	120 %	120 %	5 mm/min; ISO 527
Elongation at Yield	4.6 %	4.6 %	Type I, 5 mm/min; ASTM D638
	4.6 %	4.6 %	5 mm/min; ISO 527
Tensile Modulus	2.11 GPa	306 ksi	1 mm/min; ISO 527
	2.20 GPa	319 ksi	5 mm/min; ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ISO 178
Flexural Yield Strength	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	2.17 GPa	315 ksi	1.4 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	6.90 J/cm	12.9 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	45.0 kJ/m ²	21.4 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	58.0 J	42.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C	230 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Â°C	183 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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