

SABIC Innovative Plastics LNP THERMOCOMP 67002XXH PBT+PC

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

Material Notes:

LNP* THERMOCOMP* 67002XXH is a compound based on PBT+PC containing proprietary antimicrobial additives. Designed for touch surfaces in patient critical healthcare applications. Added features include: Low 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-67002XXH-PBTPC.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/inÂ³	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	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	52.0 MPa	7540 psi	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	100 %	100 %	Type I, 5 mm/min; ASTM D638
	105 %	105 %	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	2.00 GPa	290 ksi	1 mm/min; ISO 527
	2.12 GPa	307 ksi	5 mm/min; ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ISO 178
Flexural Yield Strength	79.0 MPa	11500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.95 GPa	283 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	2.11 GPa	306 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)	44.0 kJ/m ²	20.9 ft-lb/in ²	80*10*4; ISO 180/1A
Impact Test	66.0 J	48.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	87.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	48.3 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
CTE, linear, Transverse to Flow	91.0 Åµm/m-Å°C @Temperature -30.0 - 30.0 Å°C	50.6 Åµin/in-Å°F @Temperature -22.0 - 86.0 Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	108 Å°C	226 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	112 Å°C @Thickness 3.20 mm	234 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Å°C	181 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	94.0 Å°C @Thickness 3.20 mm	201 Å°F @Thickness 0.126 in	unannealed; ASTM D648

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