

SABIC Innovative Plastics LNP THERMOCOMP M7001XXH PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* M7001XXH is a compound based on Polypropylene resin containing proprietary antimicrobial additives. Designed for touch surfaces in patient critical healthcare applications. Added features include: high antimicrobial performance, high mechanical strength, healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-M7001XXH-PP.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Time 86400 sec	0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Time 86400 sec	0.0070 in/in @Time 24.0 hour	ASTM D955
Melt Flow	32 g/10 min @Load 2.16 kg, Temperature 230 °C	32 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	5 mm/min; ISO 527
	36.0 MPa	5220 psi	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.75 GPa	254 ksi	1 mm/min; ISO 527
	1.80 GPa	261 ksi	5 mm/min; ASTM D638
Flexural Strength	35.0 MPa	5080 psi	ISO 178
Flexural Yield Strength	40.0 MPa	5800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.30 GPa	189 ksi	2 mm/min; ISO 178
	1.45 GPa	210 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	105 °C @Thickness 3.20 mm	221 °F @Thickness 0.126 in	unannealed; ASTM D648

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