

SABIC Innovative Plastics LNP THERMOCOMP MF741XXH PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* THERMOCOMP* MF741XXH is a compound based on Polypropylene resin containing Glass Fiber and 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-MF741XXH-PP.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
	1.8 %	1.8 %	5 mm/min; ISO 527
Tensile Modulus	4.90 GPa	711 ksi	1 mm/min; ISO 527
	5.30 GPa	769 ksi	5 mm/min; ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ISO 178
Flexural Yield Strength	83.0 MPa	12000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	4.40 GPa	638 ksi	1.3 mm/min, 50 mm span; ASTM D790
	4.50 GPa	653 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
	10.0 J	7.38 ft-lb	

Mechanical Properties	Metric @ Temperature 23.0 Â°C	English @ Temperature 73.4 Â°F	Comments ASTM D3753
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	41.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	77.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	42.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	158 Â°C	316 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	160 Â°C @Thickness 3.20 mm	320 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Â°C	280 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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