

SABIC Innovative Plastics LNP THERMOCOMP 9X07430 PBT+PC

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

Material Notes:

LNP* THERMOCOMP* 9X07430 is a compound based on a PBT+PC Blend containing Glass Fiber, Talc. Added features of this material include: Opaque, Weatherable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9X07430-PBTPC.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23 ⁰ C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0051 cm/cm	0.0051 in/in	SABIC Method
	0.0050 - 0.0051 cm/cm	0.0050 - 0.0051 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0059 cm/cm	0.0059 in/in	SABIC Method
	0.0058 - 0.0059 cm/cm	0.0058 - 0.0059 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	Type I, 5 mm/min; ASTM D638
	56.0 MPa	8120 psi	5 mm/min; ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
	60.0 MPa	8700 psi	5 mm/min; ISO 527
Elongation at Break	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D638
	4.9 %	4.9 %	5 mm/min; ISO 527
Elongation at Yield	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
	3.1 %	3.1 %	5 mm/min; ISO 527
Tensile Modulus	3.16 GPa	458 ksi	1 mm/min; ISO 527
			50 mm/min; ASTM D638

Mechanical Properties	3.30 GPa Metric	479 ksi English	Comments
Flexural Yield Strength	97.0 MPa	14100 psi	2 mm/min; ISO 178
	99.0 MPa	14400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.02 GPa	438 ksi	2 mm/min; ISO 178
	3.14 GPa	455 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.15 J/cm	13.4 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	47.0 kJ/mÂ²	22.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	3.00 J @Temperature -30.0 Â°C	2.21 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak; ASTM D3763
	7.00 J @Temperature -30.0 Â°C	5.16 ft-lb @Temperature -22.0 Â°F	ASTM D3763
	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	57.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	31.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	83.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	46.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 1.8 MPa (264 psi)	105 Â°C	221 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	102 Â°C @Thickness 3.20 mm	216 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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