

SABIC Innovative Plastics LNP THERMOCOMP 9H1100C

Category : Polymer , Thermoplastic

Material Notes:

LNP* Thermocomp* 9H1100C is a High Specific Gravity compound containing proprietary fillers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-9H1100C.php

Physical Properties	Metric	English	Comments
Specific Gravity	11.29 g/cc	11.29 g/cc	ASTM D792
Density	11.26 g/cc	0.4068 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0400 %	0.0400 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.0 MPa	1740 psi	Type I, 5 mm/min; ASTM D638
	13.0 MPa	1890 psi	5 mm/min; ISO 527
Tensile Strength, Yield	12.0 MPa	1740 psi	Type I, 5 mm/min; ASTM D638
	13.0 MPa	1890 psi	5 mm/min; ISO 527
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
	0.90 %	0.90 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	0.70 %	0.70 %	5 mm/min; ISO 527
	0.80 %	0.80 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.96 GPa	429 ksi	1 mm/min; ISO 527
	5.49 GPa	796 ksi	5 mm/min; ASTM D638
Flexural Strength	25.0 MPa	3630 psi	ISO 178
Flexural Yield Strength	25.0 MPa	3630 psi	1.3 mm/min, 50 mm span; ASTM D790

Flexural Modulus Mechanical Properties	5.09 GPa Metric	738 ksi English	2 mm/min; ISO 178 Comments
	6.57 GPa	953 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.78 J/cm	3.33 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	13.0 kJ/m ²	6.19 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J @Temperature 23.0 Â°C	4.43 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	48.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	43.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	23.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	134 Â°C	273 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C	207 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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