

SABIC Innovative Plastics LNP THERMOCOMP CX05470 PS

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

LNP* THERMOCOMP* CX05470 is a compound based on Polystyrene resin containing 20% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-CX05470-PS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Density	1.18 g/cc	0.0426 lb/in ³	ASTM D792
Moisture Absorption	0.0600 %	0.0600 %	50% RH, 24 hrs; ASTM D570
	0.0700 %	0.0700 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 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
	52.0 MPa	7540 psi	5 mm/min; ISO 527
	64.0 MPa	9280 psi	ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	Type I, 5 mm/min; ASTM D638
	52.0 MPa	7540 psi	5 mm/min; ISO 527
Elongation at Break	1.1 %	1.1 %	5 mm/min; ISO 527
	1.2 %	1.2 %	ASTM D638
	1.2 %	1.2 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.1 %	1.1 %	Type I, 5 mm/min; ASTM D638
	1.1 %	1.1 %	5 mm/min; ISO 527
Tensile Modulus	6.80 GPa	986 ksi	1 mm/min; ISO 527
	7.08 GPa	1030 ksi	50 mm/min; ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ISO 178

Mechanical Properties	Metric	English	Comments
	89.0 MPa	12900 psi	1.3 mm/min, 50 mm span; ASTM D790
	96.0 MPa	13900 psi	ASTM D790
Flexural Yield Strength	90.0 MPa	13100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.32 GPa	917 ksi	2 mm/min; ISO 178
	6.34 GPa	920 ksi	ASTM D790
	6.48 GPa	940 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.360 J/cm	0.674 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.56 J/cm	2.92 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J @Temperature 23.0 Â°C	5.90 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	69.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	38.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	56.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	31.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	93.0 Â°C @Thickness 3.20 mm	199 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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