

## SABIC Innovative Plastics LNP THERMOCOMP DX06411H PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* THERMOCOMP\* DX06411H is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features of this material include: Easy Molding, Mold Release, Healthcare.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX06411H-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX06411H-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	50% RH, 24 hrs; ASTM D570
	0.0100 %	0.0100 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
	102 MPa	14800 psi	5 mm/min; ISO 527
Tensile Strength, Yield	104 MPa	15100 psi	Type I, 5 mm/min; ASTM D638
	104 MPa	15100 psi	5 mm/min; ISO 527
Elongation at Break	3.8 %	3.8 %	5 mm/min; ISO 527
	3.9 %	3.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.9 %	2.9 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	6.96 GPa	1010 ksi	50 mm/min; ASTM D638
	6.99 GPa	1010 ksi	1 mm/min; ISO 527
Flexural Strength	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
	175 MPa	25400 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Yield Strength	174 MPa	25200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	2 mm/min; ISO 178
	6.09 GPa	883 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.18 J/cm	2.21 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.47 J/cm	17.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/m <sup>2</sup>	28.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J @Temperature 23.0 Â°C	13.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	3.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.67 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C	289 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	136 Â°C @Thickness 3.20 mm	277 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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