

## SABIC Innovative Plastics LNP THERMOCOMP DX09402 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

LNP\* THERMOCOMP\* DX09402 is a compound based on Polycarbonate containing Proprietary Filler(s).

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX09402-PC.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-DX09402-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Tensile Strength, Yield	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	21.3 %	21.3 %	5 mm/min; ISO 527
	36.8 %	36.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	5.1 %	5.1 %	5 mm/min; ISO 527
	5.3 %	5.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.97 GPa	431 ksi	50 mm/min; ASTM D638
	2.99 GPa	434 ksi	1 mm/min; ISO 527
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Flexural Modulus	2.64 GPa	383 ksi	2 mm/min; ISO 178
	2.81 GPa	408 ksi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	0790 Comments
Izod Impact, Notched	4.31 J/cm	8.07 ft-lb/in	ASTM D256
Izod Impact, Unnotched	22.6 J/cm	42.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	29.0 kJ/m <sup>2</sup>	13.8 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	201 kJ/m <sup>2</sup>	95.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	41.0 J	30.2 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	43.0 J	31.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	54.0 Âµm/m-Â°C	30.0 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	78.0 Âµm/m-Â°C	43.3 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	136 Â°C	277 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 Â°C	257 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	129 Â°C @Thickness 3.20 mm	264 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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