

## SABIC Innovative Plastics LNP THERMOCOMP TH0750A PUR

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

LNP THERMOCOMP\* TH0750A is a compound based on Polyurethane resin. Added features of this material include: High Specific Gravity.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TH0750A-PUR.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-TH0750A-PUR.php)

Physical Properties	Metric	English	Comments
Density	7.50 g/cc	0.271 lb/in <sup>3</sup>	ASTM D792
	7.50 g/cc	0.271 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.160 %	0.160 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527
	19.0 MPa	2760 psi	ASTM D638
Tensile Strength, Yield	16.0 MPa	2320 psi	ISO 527
	19.0 MPa	2760 psi	ASTM D638
Elongation at Break	5.3 %	5.3 %	ISO 527
	30.1 %	30.1 %	ASTM D638
Elongation at Yield	4.8 %	4.8 %	ISO 527
	21.9 %	21.9 %	ASTM D638
Tensile Modulus	1.16 GPa	168 ksi	50 mm/min; ASTM D638
	1.62 GPa	235 ksi	1 mm/min; ISO 527

Mechanical Properties	75.0 MPa Metric	3630 psi English	ASTM D790 Comments
	26.0 MPa	3770 psi	ISO 178
Flexural Modulus	1.39 GPa	202 ksi	ASTM D790
	1.68 GPa	244 ksi	ISO 178
Izod Impact, Notched	1.73 J/cm	3.24 ft-lb/in	ASTM D256
Izod Impact, Unnotched	14.02 J/cm	26.27 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	28.0 kJ/m <sup>2</sup>	13.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	72.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	40.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	68.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	38.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	75.0 $\text{Å}^\circ\text{C}$	167 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	45.0 $\text{Å}^\circ\text{C}$	113 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	46.0 $\text{Å}^\circ\text{C}$	115 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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