

**SABIC Innovative Plastics LNP THERMOCOMP PH0800A PA 6**

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

LNP\* THERMOCOMP\* PH0800A is a compound based on Nylon 6 resin. Added feature of this material is: High Specific Gravity.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0800A-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0800A-PA-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	7.81 g/cc	7.81 g/cc	ASTM D792
Density	7.79 g/cc	0.281 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	Type I, 5 mm/min; ASTM D638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Elongation at Break	0.80 %	0.80 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	0.80 %	0.80 %	5 mm/min; ISO 527
	1.0 %	1.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.68 GPa	1260 ksi	1 mm/min; ISO 527
	9.06 GPa	1310 ksi	50 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ISO 178
	81.0 MPa	11700 psi	2 mm/min; ISO 178
	86.0 MPa	12500 psi	1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	Metric	English	<sup>D790</sup> Comments
Flexural Modulus	5.71 GPa	828 ksi	1.3 mm/min, 50 mm span; ASTM D790
	8.34 GPa	1210 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.710 J/cm	1.33 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.20 J/cm	4.12 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/m <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	8.00 J	5.90 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 µm/m-°C	28.9 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
CTE, linear, Transverse to Flow	43.0 µm/m-°C	23.9 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	192 °C	378 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	193 °C	379 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	145 °C	293 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China