

## SABIC Innovative Plastics LNP THERMOCOMP PH0240A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

LNP\* THERMOCOMP\* PH0240A is a compound based on Nylon 6 resin. Added features of this grade include: High Impact, High Specific Gravity.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0240A-PA-6.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0240A-PA-6.php)

Physical Properties	Metric	English	Comments
Density	2.35 g/cc	0.0849 lb/in <sup>3</sup>	ISO 1183
	2.36 g/cc	0.0853 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23 <sup>o</sup> 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	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	47.0 MPa	6820 psi	5 mm/min; ISO 527
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	5.63 GPa	817 ksi	1 mm/min; ISO 527
	6.25 GPa	906 ksi	50 mm/min; ASTM D638
Flexural Strength	81.0 MPa	11700 psi	1.3 mm/min, 50 mm span; ASTM D790
	85.0 MPa	12300 psi	ISO 178
Flexural Yield Strength	83.0 MPa	12000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.14 GPa	745 ksi	1.3 mm/min, 50 mm span; ASTM D790
	5.63 GPa	817 ksi	2 mm/min; ISO 178

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Izod Impact, Unnotched	4.72 J/cm	8.84 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

<b>Thermal Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear, Parallel to Flow	58.5 Âµm/m-Â°C	32.5 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	48.1 Âµm/m-Â°C	26.7 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)	202 Â°C	396 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	204 Â°C @Thickness 3.20 mm	399 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	159 Â°C	318 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	163 Â°C @Thickness 3.20 mm	325 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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