

## SABIC Innovative Plastics LNP THERMOCOMP UF00BAS PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

### Material Notes:

LNP\* THERMOCOMP\* UF00BAS is a compound based on Polyphthalamide containing 55% Glass Fiber. Added feature of this material is: Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF00BAS-PPA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF00BAS-PPA.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.64 g/cc	1.64 g/cc	ASTM D792
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	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	
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	227 MPa	32900 psi	5 mm/min; ISO 527
	246 MPa	35700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	18.87 GPa	2737 ksi	1 mm/min; ISO 527
	19.24 GPa	2791 ksi	5 mm/min; ASTM D638
Flexural Strength	314 MPa	45500 psi	ISO 178
	338 MPa	49000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	15.91 GPa	2308 ksi	2 mm/min; ISO 178
	17.3 GPa	2510 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.820 J/cm	1.54 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	2.91 J/cm Metric	5.45 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	9.00 kJ/m <sup>2</sup>	4.28 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m <sup>2</sup>	16.2 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 Âµm/m-Â°C	19.4 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	28.0 Âµm/m-Â°C	15.6 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)	293 Â°C	559 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	289 Â°C @Thickness 3.20 mm	552 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	272 Â°C	522 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	270 Â°C @Thickness 3.20 mm	518 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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