

## SABIC Innovative Plastics LNP THERMOCOMP UF009S PPA

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

### Material Notes:

LNP THERMOCOMP\* UF009S is a compound based on Polyphthalamide resin containing 45% Glass Fiber. Added features of this material include: Heat Stabilized.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF009S-PPA.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF009S-PPA.php)

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in <sup>3</sup>	ISO 1183
	1.645 g/cc	0.05943 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.250 %	0.250 %	50% RH, 24 hrs; ASTM D570
	0.370 %	0.370 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0018 cm/cm	0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0046 cm/cm	0.0046 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	242 MPa	35100 psi	ASTM D638
	253 MPa	36700 psi	ISO 527
Elongation at Break	1.7 %	1.7 %	ASTM D638
	1.8 %	1.8 %	ISO 527
Tensile Modulus	20.35 GPa	2952 ksi	50 mm/min; ASTM D638
	22.74 GPa	3298 ksi	1 mm/min; ISO 527
Flexural Strength	386 MPa	56000 psi	ISO 178
	392 MPa	56900 psi	ASTM D790

Flexural Modulus Mechanical Properties	18.33 GPa Metric	2659 ksi English	ISO 178 Comments
	18.76 GPa	2721 ksi	ASTM D790
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.45 J/cm	25.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	82.0 kJ/m <sup>2</sup>	39.0 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	258 Â°C @Thickness 3.20 mm	496 Â°F @Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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