

## SABIC Innovative Plastics LNP Thermocomp XF006S

Category : Polymer , Thermoplastic , Nylon , Amorphous Nylon

### Material Notes:

LNP\* Thermocomp\* XF006S is a compound based on Amorphous Nylon containing Glass Fiber. Characteristics of this grade are: Heat Stabilized. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-XF006S.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-XF006S.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D 792
Density	1.36 g/cc	0.0491 lb/in <sup>3</sup>	ASTM D 792
Moisture Absorption at Equilibrium	0.28 %	0.28 %	23 <sup>o</sup> C / 50% RH; ISO 62
	0.22 % @Time 86400 sec	0.22 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	138 MPa	20000 psi	Type I, 5 mm/min; ASTM D 638
	141 MPa	20500 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	9.02 GPa	1310 ksi	1 mm/min; ISO 527
	9.65 GPa	1400 ksi	50 mm/min; ASTM D 638
Flexural Strength	208 MPa	30200 psi	1.3 mm/min, 50 mm span; ASTM D 790
	214 MPa	31000 psi	ISO 178
Flexural Yield Strength	209 MPa	30300 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	8.91 GPa	1290 ksi	2 mm/min; ISO 178
	9.06 GPa	1310 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.560 J/cm	1.05 ft-lb/in	ASTM D 256

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Izod Impact, Unnotched	6.32 J/cm @Temperature 23.0 Â°C	11.8 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/mÂ² @Temperature 23.0 Â°C	18.1 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603
	11.0 J @Temperature 23.0 Â°C	8.11 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	44.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	24.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
CTE, linear, Transverse to Flow	35.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	19.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D 696
Deflection Temperature at 0.46 MPa (66 psi)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	137 Â°C	279 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	138 Â°C @Thickness 3.20 mm	280 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

## 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