

## LNP Thermocomp® IF-1006 Polyamide 6/12 Copolymer, Glass Fiber Reinforcement (discontinued \*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Glass Fiber Filler

### Material Notes:

Forms: Pellets Processing Method: Injection Molding Information provided by LNP, a GE Plastics Company. This data sheet is labeled Discontinued; however many LNP grades are still active under new names instituted after the SABIC purchase.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LNP-Thermocomp-IF-1006-Polyamide-612-Copolymer-Glass-Fiber-Reinforcement-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LNP-Thermocomp-IF-1006-Polyamide-612-Copolymer-Glass-Fiber-Reinforcement-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0070 - 0.0080 cm/cm	0.0070 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	182 MPa	26400 psi	ASTM D638
Tensile Strength, Yield	182 MPa	26400 psi	ASTM D638
Elongation at Break	3.7 %	3.7 %	ASTM D638
Elongation at Yield	3.7 %	3.7 %	ASTM D638
Tensile Modulus	9.58 GPa	1390 ksi	ASTM D638
Flexural Strength	290 MPa	42100 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Izod Impact, Notched	1.39 J/cm @Thickness 3.18 mm	2.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	12.4 J/cm @Thickness 3.18 mm	23.2 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	14.1 kJ/m <sup>2</sup>	6.71 ft-lb/in <sup>2</sup>	ISO 180
Izod Impact, Unnotched (ISO)	78.3 kJ/m <sup>2</sup>	37.3 ft-lb/in <sup>2</sup>	ISO 180
Falling Dart Impact	14.0 J	10.3 ft-lb	ASTM D3763
	3.04 J	2.24 ft-lb	Multi-Axial Instrumented Impact

<b>Mechanical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
CTE, linear	40.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 $\text{°C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 $\text{°F}$	TMA; ASTM E831
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 20.0 $\text{°C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 68.0 $\text{°F}$	TMA; ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	214 $\text{°C}$	417 $\text{°F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	198 $\text{°C}$	388 $\text{°F}$	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melt Temperature	268 - 274 $\text{°C}$	514 - 525 $\text{°F}$	
Mold Temperature	65.6 - 93.3 $\text{°C}$	150 - 200 $\text{°F}$	
Drying Temperature	82.2 $\text{°C}$	180 $\text{°F}$	
Dry Time	4 hour	4 hour	
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

## Contact Songhan Plastic Technology Co.,Ltd.

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