

LNP Thermocomp® SF-1006 Polyamide 12, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

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-SF-1006-Polyamide-12-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	Method A; ASTM D792
Water Absorption	0.10 %	0.10 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 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	106 MPa	15400 psi	ASTM D638
Tensile Strength, Yield	107 MPa	15500 psi	ASTM D638
Elongation at Break	4.7 %	4.7 %	ASTM D638
Elongation at Yield	4.2 %	4.2 %	ASTM D638
Tensile Modulus	6.55 GPa	950 ksi	ASTM D638
Flexural Strength	165 MPa	23900 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Thickness 3.18 mm	2.79 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	9.50 J/cm @Thickness 3.18 mm	17.8 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	58.1 kJ/m ²	27.6 ft-lb/in ²	ISO 180
Falling Dart Impact	13.0 J	9.59 ft-lb	ASTM D3763
Impact Test	3.61 J	2.66 ft-lb	Multi-Axial Instrumented Impact Energy; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	110 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	164 $^{\circ}\text{C}$	327 $^{\circ}\text{F}$	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 235 $^{\circ}\text{C}$	441 - 455 $^{\circ}\text{F}$	
Mold Temperature	71.1 - 82.2 $^{\circ}\text{C}$	160 - 180 $^{\circ}\text{F}$	
Drying Temperature	82.2 $^{\circ}\text{C}$	180 $^{\circ}\text{F}$	
Dry Time	4 hour	4 hour	
Moisture Content	0.020 %	0.020 %	Suggested
Back Pressure	0.172 - 0.345 MPa	24.9 - 50.0 psi	

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