

LNP Thermotuf® QF-1006 HI Polyamide 6/10 Copolymer, Glass Fiber Reinforcement (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 610 , Nylon 610, Glass Reinforced

Material Notes:

Features: High Impact Resistance
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-Thermotuf-QF-1006-HI-Polyamide-610-Copolymer-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	Method A; ASTM D792
Water Absorption	0.20 %	0.20 %	at 24 hrs; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	140 MPa	20300 psi	ASTM D638
Tensile Strength, Yield	140 MPa	20300 psi	ASTM D638
Elongation at Break	3.4 %	3.4 %	ASTM D638
Elongation at Yield	3.3 %	3.3 %	ASTM D638
Tensile Modulus	8.48 GPa	1230 ksi	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	7.03 GPa	1020 ksi	ASTM D790
Izod Impact, Notched	1.28 J/cm @Thickness 3.18 mm	2.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.6 J/cm @Thickness 3.18 mm	21.7 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	15.4 kJ/m ²	7.33 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	73.4 kJ/m ²	34.9 ft-lb/in ²	ISO 180
Falling Dart Impact	9.30 J	6.86 ft-lb	ASTM D3763

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	17.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	88.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	48.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	268 - 274 °C	514 - 525 °F	
Mold Temperature	82.2 - 93.3 °C	180 - 200 °F	
Drying Temperature	82.2 °C	180 °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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