

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

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

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-QF-1006-Polyamide-610-Copolymer-Glass-Fiber-Reinforcement-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 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	150 MPa	21800 psi	ASTM D638
Tensile Strength, Yield	150 MPa	21800 psi	ASTM D638
Elongation at Break	3.6 %	3.6 %	ASTM D638
Elongation at Yield	3.6 %	3.6 %	ASTM D638
Tensile Modulus	8.41 GPa	1220 ksi	ASTM D638
Flexural Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	7.86 GPa	1140 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.18 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	11.2 J/cm @Thickness 3.18 mm	21.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	9.70 kJ/m ²	4.62 ft-lb/in ²	ISO 180
Izod Impact, Unnotched (ISO)	71.8 kJ/m ²	34.2 ft-lb/in ²	ISO 180
Falling Dart Impact	9.93 J	7.32 ft-lb	ASTM D3763
	2.72 J	2.01 ft-lb	Multi-Axial Instrumented Impact

Mechanical Properties	Metric	English	Comments
CTE, linear	31.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	TMA; ASTM E831
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 20.0 $^{\circ}\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 68.0 $^{\circ}\text{F}$	TMA; ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	221 $^{\circ}\text{C}$	430 $^{\circ}\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 $^{\circ}\text{C}$	405 $^{\circ}\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Melt Temperature	268 - 274 $^{\circ}\text{C}$	514 - 525 $^{\circ}\text{F}$	
Mold Temperature	82.2 - 93.3 $^{\circ}\text{C}$	180 - 200 $^{\circ}\text{F}$	
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	

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