

**SABIC Innovative Plastics LNP THERMOCOMP QF00A PA6.10**

Category : Polymer , Thermoplastic , Nylon , Nylon 610

**Material Notes:**

LNP\* THERMOCOMP\* QF00A is a compound based on Nylon 6/10 containing 50% Glass Fiber.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QF00A-PA610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QF00A-PA610.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.280 %	0.280 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0018 - 0.0020 cm/cm	0.0018 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.015 cm/cm	0.0050 - 0.015 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	181 MPa	26300 psi	Type I, 5 mm/min; ASTM D638
	181 MPa	26300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	181 MPa	26300 psi	Type I, 5 mm/min; ASTM D638
	181 MPa	26300 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.3 %	2.3 %	5 mm/min; ISO 527
	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.51 GPa	2250 ksi	1 mm/min; ISO 527
	18.68 GPa	2709 ksi	50 mm/min; ASTM D638
Flexural Strength	285 MPa	41300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	280 MPa	40600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric <sup>MPa</sup>	English <sup>l</sup>	Comments <sup>1, 3 mm/min, 50 mm span; ASTM D790</sup>
	12.87 GPa	1867 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.05 J/cm	24.45 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m <sup>2</sup>	6.66 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	75.0 kJ/m <sup>2</sup>	35.7 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	1.50 Åµm/m-Å°C	0.833 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	7.83 Åµm/m-Å°C	4.35 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	221 Å°C	430 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	205 Å°C	401 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 Å°C	415 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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