

## SABIC Innovative Plastics LNP THERMOCOMP QC008 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

### Material Notes:

LNP\* THERMOCOMP\* QC008 is a compound based on Nylon 6/10 containing 40% Carbon Fiber. Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QC008-PA610.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QC008-PA610.php)

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in <sup>3</sup>	ISO 1183
	1.29 g/cc	0.0466 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.310 %	0.310 %	50% RH, 24 hrs; ASTM D570
	0.310 %	0.310 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.00080 cm/cm	0.00060 - 0.00080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0070 cm/cm	0.0060 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	233 MPa	33800 psi	Type I, 5 mm/min; ASTM D638
	237 MPa	34400 psi	5 mm/min; ISO 527
Tensile Strength, Yield	233 MPa	33800 psi	Type I, 5 mm/min; ASTM D638
	237 MPa	34400 psi	5 mm/min; ISO 527
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.6 %	1.6 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	31.86 GPa	4621 ksi	1 mm/min; ISO 527
	44.2 GPa	6410 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	362 MPa	52500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
	22.44 GPa	3255 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.44 J/cm	25.18 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m <sup>2</sup>	5.23 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	68.0 kJ/m <sup>2</sup>	32.4 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.94 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.41 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	8.27 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.59 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	223 $\text{Å}^\circ\text{C}$	433 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	432 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	216 $\text{Å}^\circ\text{C}$	421 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	217 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	423 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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