

SABIC Innovative Plastics LNP THERMOCOMP QC006 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP THERMOCOMP* QC006 is a compound based on Nylon 6/10 resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QC006-PA610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	214 MPa	31000 psi	Type I, 5 mm/min; ASTM D638
	243 MPa	35200 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
	3.0 %	3.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	23.01 GPa	3337 ksi	1 mm/min; ISO 527
Flexural Strength	325 MPa	47100 psi	1.3 mm/min, 50 mm span; ASTM D790
	349 MPa	50600 psi	ISO 178
Flexural Yield Strength	326 MPa	47300 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	16.1 GPa	2340 ksi	1.3 mm/min, 50 mm span; ASTM D790
	18.77 GPa	2722 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.04 J/cm	1.95 ft-lb/in	ASTM D256

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	59.0 kJ/m ²	28.1 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 Åµm/m-Å°C	6.67 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
CTE, linear, Transverse to Flow	55.0 Åµm/m-Å°C	30.6 Åµin/in-Å°F	ASTM D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	221 Å°C	430 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	220 Å°C	428 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	213 Å°C	415 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	211 Å°C	412 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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