

SABIC Innovative Plastics LNP THERMOCOMP QC006I PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP THERMOCOMP QC006I is a compound based on Nylon 6/10 containing 30% Carbon Fiber. Added features of this grade include:
High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QC006I-PA-610.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Moisture Absorption	0.210 %	0.210 %	50% RH, 24 hrs; ASTM D570
	0.300 %	0.300 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	209 MPa	30300 psi	5 mm/min; ISO 527
	210 MPa	30500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	19.33 GPa	2804 ksi	1 mm/min; ISO 527
	19.42 GPa	2817 ksi	5 mm/min; ASTM D638
Flexural Strength	300 MPa	43500 psi	ISO 178
	309 MPa	44800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	311 MPa	45100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	15.06 GPa	2184 ksi	2 mm/min; ISO 178
	15.4 GPa	2230 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	9.69 J/cm	18.2 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	62.0 kJ/mÂ²	29.5 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	22.0 J @Temperature 23.0 Â°C	16.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	8.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	72.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	221 Â°C	430 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	222 Â°C @Thickness 3.20 mm	432 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C	406 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	213 Â°C @Thickness 3.20 mm	415 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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