

SABIC Innovative Plastics LNP THERMOCOMP QF006 PA 6/10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP THERMOCOMP* QF006 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QF006-PA-610.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
	1.309 g/cc	0.04729 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0017 - 0.0018 cm/cm	0.0017 - 0.0018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0098 - 0.0099 cm/cm	0.0098 - 0.0099 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	ASTM D638
	153 MPa	22200 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
	3.6 %	3.6 %	ASTM D638
Tensile Modulus	8.41 GPa	1220 ksi	50 mm/min; ASTM D638
	8.80 GPa	1280 ksi	1 mm/min; ISO 527
Flexural Strength	219 MPa	31800 psi	ISO 178
	250 MPa	36300 psi	ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.16 J/cm	20.91 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	71.0 kJ/m ²	33.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.5 Åµm/m-Å°C	16.9 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	30.6 Åµm/m-Å°C	17.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	72.7 Åµm/m-Å°C	40.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	72.7 Åµm/m-Å°C	40.4 Åµin/in-Å°F	ISO 11359-2
	@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	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	207 Å°C	405 Å°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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