

SABIC Innovative Plastics LNP THERMOCOMP QF0069 PA6.10

Category : Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

LNP* THERMOCOMP* QF0069 is a compound based on Nylon 6/10 resin containing 30% Glass Fiber. Added features of this material include: Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-QF0069-PA610.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0086 cm/cm	0.0086 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	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	145 MPa	21000 psi	ISO 527
	150 MPa	21800 psi	ASTM D638
Tensile Strength, Yield	145 MPa	21000 psi	ISO 527
	150 MPa	21800 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Elongation at Yield	1.8 %	1.8 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	11.02 GPa	1598 ksi	1 mm/min; ISO 527

Mechanical Properties	11.03 GPa Metric	1600 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	197 MPa	28600 psi	ISO 178
	199 MPa	28900 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ISO 178
	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.03 J/cm	11.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/m ²	17.6 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	66.6 Åµm/m-Å°C	37.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	67.0 Åµm/m-Å°C	37.2 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	39.6 Åµm/m-Å°C	22.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	40.0 Åµm/m-Å°C	22.2 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)	218 Å°C	424 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)	197 Å°C	387 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	201 Å°C	394 Å°F	
	@Thickness 3.20 mm	@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