

SABIC Innovative Plastics LNP THERMOCOMP PF008QS PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP THERMOCOMP* PF008QS is a compound based on Nylon 6 resin containing 40% Glass Fiber. Added features of this material include:
Heat Stabilized, Reduced Moisture.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PF008QS-PA-6.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
	1.354 g/cc	0.04892 lb/in ³	ASTM D792
Moisture Absorption	0.310 %	0.310 %	50% RH, 24 hrs; ASTM D570
	0.500 %	0.500 %	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	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	152 MPa	22000 psi	ASTM D638
	165 MPa	23900 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ASTM D638
	3.4 %	3.4 %	ISO 527
Tensile Modulus	11.6 GPa	1680 ksi	1 mm/min; ISO 527
	12.2 GPa	1770 ksi	50 mm/min; ASTM D638
Flexural Strength	244 MPa	35400 psi	ASTM D790
	262 MPa	38000 psi	ISO 178

Flexural Modulus Mechanical Properties	9.58 GPa Metric	1390 ksi English	ASTM D790 Comments
	12.0 GPa	1740 ksi	ISO 178
Izod Impact, Notched	1.70 J/cm	3.18 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.05 J/cm	20.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	17.0 kJ/m ²	8.09 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	72.0 kJ/m ²	34.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	30.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	17.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	55.6 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	30.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	218 $\text{Å}^\circ\text{C}$	424 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	201 $\text{Å}^\circ\text{C}$	394 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	199 $\text{Å}^\circ\text{C}$	390 $\text{Å}^\circ\text{F}$	
	@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