

SABIC Innovative Plastics LNP THERMOCOMP RF006H PA 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

LNP THERMOCOMP* RF006H is a compound based on Nylon 66 resin containing 30% Glass Fiber. Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-RF006H-PA-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Moisture Absorption	0.690 %	0.690 %	50% RH, 24 hrs; ASTM D570
	1.20 %	1.20 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.014 - 0.016 cm/cm	0.014 - 0.016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	154 MPa	22300 psi	5 mm/min; ISO 527
	165 MPa	23900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.4 %	2.4 %	5 mm/min; ISO 527
Tensile Modulus	8.98 GPa	1300 ksi	1 mm/min; ISO 527
Flexural Strength	235 MPa	34100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.22 GPa	1340 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric ^{Pa}	English ^l	Comments ^{1, 3 mm/min, 50 mm span; ASTM D790}
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.46 J/cm	12.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	52.0 kJ/m ²	24.7 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	6.00 J	4.43 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.71	0.71	ASTM D3702 Modified
Coefficient of Friction, Static	0.57	0.57	ASTM D3702 Modified
K (wear) Factor	151 x 10 ⁻⁸ mm ³ /N-M	75.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	30.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	73.2 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	40.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	265 $\text{Å}^\circ\text{C}$	509 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	243 $\text{Å}^\circ\text{C}$	469 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	255 $\text{Å}^\circ\text{C}$	491 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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