

SABIC Innovative Plastics LNP THERMOCOMP UF008H PPA (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

LNP THERMOCOMP* UF008H is a compound based on Polyphthalamide resin containing Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-UF008H-PPA-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ISO 1183
	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Moisture Absorption	0.270 %	0.270 %	50% RH, 24 hrs; ASTM D570
	0.420 %	0.420 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0027 cm/cm	0.0027 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0123 cm/cm	0.0123 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	205 MPa	29700 psi	ISO 527
	236 MPa	34200 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ISO 527
	2.1 %	2.1 %	ASTM D638
Tensile Modulus	14.34 GPa	2080 ksi	1 mm/min; ISO 527
	16.13 GPa	2339 ksi	50 mm/min; ASTM D638
Flexural Strength	311 MPa	45100 psi	ASTM D790
	321 MPa	46600 psi	ISO 178
Flexural Modulus	13.44 GPa	1949 ksi	ASTM D790

Mechanical Properties	Metric 12.8 GPa	English 2000 ksi	Comments ISO 178
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.70 J/cm	16.3 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)	51.0 kJ/m ²	24.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 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	23.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	24.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	28.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 1.8 MPa (264 psi)	30.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	272 $\text{Å}^\circ\text{C}$	522 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	281 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	538 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	

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