

SABIC Innovative Plastics LNP THERMOCOMP KF002L Acetal Homopoly (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Glass Fiber Reinforced

Material Notes:

LNP* Thermocomp* KF002L is a compound based on Acetal Homopolymer resin containing Glass Fiber. Added features of this material include: Low Extractible.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KF002L-Acetal-Homopoly-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.015 - 0.017 cm/cm	0.015 - 0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	63.0 MPa	9140 psi	ASTM D638
	63.0 MPa	9140 psi	ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	ISO 527
	66.0 MPa	9570 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ISO 527
	3.4 %	3.4 %	ASTM D638
Elongation at Yield	2.1 %	2.1 %	ISO 527
	2.2 %	2.2 %	ASTM D638
Tensile Modulus	5.60 GPa	812 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric GPa	English ksi	Comments 50 mm/min; ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
	105 MPa	15200 psi	ISO 178
Flexural Modulus	4.40 GPa	638 ksi	ISO 178
	4.82 GPa	699 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.84 J/cm	7.19 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/m ²	12.4 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	6.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	112 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	62.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	5.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	3.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	60.5 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	33.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 0.46 MPa (66 psi)	162 $\text{Å}^\circ\text{C}$	324 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	162 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	324 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	148 $\text{Å}^\circ\text{C}$	298 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	155 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	311 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties

Metric

English

Comments

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