

SABIC Innovative Plastics LNP THERMOCOMP KF005 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

LNP THERMOCOMP* KF005 is a compound based on Acetal Copolymer resin containing 25% Glass Fiber. Added features of this material include: Chemically Coupled.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KF005-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Moisture Absorption	0.280 %	0.280 %	50% RH, 24 hrs; ASTM D570
	0.280 %	0.280 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.010 - 0.040 cm/cm	0.010 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	5 mm/min; ISO 527
	107 MPa	15500 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	5 mm/min; ISO 527
	4.2 %	4.2 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.92 GPa	1874 ksi	50 mm/min; ASTM D638
Flexural Strength	38.0 MPa	5510 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	10.16 GPa	1474 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.01 J/cm	13.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m ²	18.1 ft-lb/in ²	80*10*4; ISO 180/1U

Thermal Properties	Metric	English	Comments
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Thermal Properties	71.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ Metric	39.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ English	Comments
CTE, linear, Parallel to Flow	@Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	@Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
CTE, linear, Transverse to Flow	73.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 30.0 $\text{Å}^\circ\text{C}$	40.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 86.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	164 $\text{Å}^\circ\text{C}$	327 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	163 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	325 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	161 $\text{Å}^\circ\text{C}$	322 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	162 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	324 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	unannealed; ASTM D648

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