

SABIC Innovative Plastics LNP THERMOCOMP KFB11 Acetal Copoly

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Glass Bead Filled

Material Notes:

LNP* THERMOCOMP* KFB11 is a compound based on Acetal Copolymer resin containing 5% Glass Fiber, 5% Glass Bead. Added features of this material include: Low Warpage, Chemically Coupled.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KFB11-Acetal-Copoly.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	>= 0.020 cm/cm	>= 0.020 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	
	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527
	62.0 MPa	8990 psi	ASTM D638
Tensile Strength, Yield	64.0 MPa	9280 psi	ASTM D638
	65.0 MPa	9430 psi	ISO 527
Elongation at Break	5.7 %	5.7 %	ASTM D638
	7.0 %	7.0 %	ISO 527
Elongation at Yield	3.9 %	3.9 %	ISO 527
	4.0 %	4.0 %	ASTM D638
Tensile Modulus	4.10 GPa	595 ksi	1 mm/min; ISO 527

Mechanical Properties	4.13 GPa Metric	599 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	91.0 MPa	13200 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
	3.44 GPa	499 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.28 J/cm	9.89 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	35.0 kJ/mÂ²	16.7 ft-lb/inÂ²	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	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	107 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	59.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	108 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	60.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	86.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	47.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	86.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	48.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C	322 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	162 Â°C @Thickness 3.20 mm	324 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	150 Â°C	302 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	152 Â°C @Thickness 3.20 mm	306 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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