

SABIC Innovative Plastics LNP THERMOCOMP KF002 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 10% Glass Fiber Reinforced

Material Notes:

LNP THERMOCOMP* KF002 is a compound based on Acetal Copolymer resin containing 10% Glass Fiber.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KF002-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
	1.454 g/cc	0.05253 lb/in ³	ASTM D792
Moisture Absorption	0.190 %	0.190 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0116 cm/cm	0.0116 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0129 cm/cm	0.0129 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	84.0 MPa	12200 psi	ASTM D638
	86.0 MPa	12500 psi	ISO 527
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.4 %	3.4 %	ISO 527
Tensile Modulus	4.75 GPa	689 ksi	50 mm/min; ASTM D638
	5.40 GPa	783 ksi	1 mm/min; ISO 527
Flexural Strength	129 MPa	18700 psi	ASTM D790
	137 MPa	19900 psi	ISO 178
Flexural Modulus	4.61 GPa	669 ksi	ASTM D790

Mechanical Properties	^{5.40 GPa} Metric	^{783 lb/in} English	^{ISO 178} Comments
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.48 J/cm	8.39 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)	33.0 kJ/m ²	15.7 ft-lb/in ²	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	164 Â°C @Thickness 3.20 mm	327 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	161 Â°C	322 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	161 Â°C @Thickness 3.20 mm	322 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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