

SABIC Innovative Plastics LNP THERMOCOMP KX97390 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP THERMOCOMP® KX97390 is a compound based on Acetal Copolymer resin containing 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-KX97390-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.350 %	0.350 %	23°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	0.0124 cm/cm	0.0124 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	124 MPa	18000 psi	ASTM D790
	137 MPa	19900 psi	ISO 178

Flexural Modulus Mechanical Properties	4.61 GPa Metric	669 ksi English	ASTM D790 Comments
	5.40 GPa	783 ksi	ISO 178
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.27 J/cm	8.00 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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