

SABIC Innovative Plastics LNP THERMOCOMP KZ004 Acetal Copolymer (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 20% Glass Fiber Reinforced

Material Notes:

LNP* THERMOCOMP* KZ004 is a compound based on Acetal Copolymer resin containing Glass Fiber, Milled Glass.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KZ004-Acetal-Copolymer-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
	0.340 %	0.340 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.027 - 0.030 cm/cm	0.027 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.027 - 0.030 cm/cm	0.027 - 0.030 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.018 - 0.020 cm/cm	0.018 - 0.020 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
	44.0 MPa	6380 psi	ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	ASTM D638
	44.0 MPa	6380 psi	ISO 527
Elongation at Break	9.7 %	9.7 %	ISO 527
	22.9 %	22.9 %	ASTM D638
Elongation at Yield	7.1 %	7.1 %	ISO 527
	8.1 %	8.1 %	ASTM D638

Tensile Modulus Mechanical Properties	3.43 GPa Metric	497 ksi English	1 mm/min* ISO 527 Comments
	3.96 GPa	574 ksi	50 mm/min; ASTM D638
Flexural Strength	70.0 MPa	10200 psi	ISO 178
	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	3.31 GPa	480 ksi	ISO 178
	3.51 GPa	509 ksi	ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.39 J/cm	10.1 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	3.00 kJ/mÂ²	1.43 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	37.0 kJ/mÂ²	17.6 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	2.00 J	1.48 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	73.8 Âµm/m-Â°C	41.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	75.1 Âµm/m-Â°C	41.7 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	79.2 Âµm/m-Â°C	44.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	80.1 Âµm/m-Â°C	44.5 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	106 Â°C	223 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	91.0 Â°C	196 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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