SABIC Innovative Plastics LNP THERMOCOMP KZ001L Acetal Copoly (Asia Pacific)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* Thermocomp* KZ001L is a compound based on Acetal Copolymer resin containing Glass Fiber. Added features of this material include: Low Extractible.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KZ001L-Acetal-Copoly-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/inÂ³	ASTM D792
	1.42 g/cc	0.0513 lb/inÂ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
	0.029 cm/cm @Time 86400 sec	0.029 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.026 cm/cm @Time 86400 sec	0.026 in/in @Time 24.0 hour	ISO 294
	0.020 - 0.040 cm/cm @Time 86400 sec	0.020 - 0.040 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	54.0 MPa	7830 psi	ASTM D638
	55.0 MPa	7980 psi	ISO 527
Tensile Strength, Yield	57.0 MPa	8270 psi	ASTM D638
	59.0 MPa	8560 psi	ISO 527
Elongation at Break	26.5 %	26.5 %	ASTM D638
	42.7 %	42.7 %	ISO 527
Elongation at Yield	9.1 %	9.1 %	ASTM D638
	9.8 %	9.8 %	ISO 527
Tensile Modulus	2.75 GPa	399 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	2.84 GPa	412 ksi	1 mm/min; ISO 527
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
	2.06 GPa	299 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Unnotched	13.08 J/cm	24.50 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)	84.0 kJ/mÂ²	40.0 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 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	113 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	62.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	113 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	62.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	113 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	62.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	113 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	62.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Â°C	199 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	101 Â°C @Thickness 3.20 mm	214 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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