

SABIC Innovative Plastics LNP THERMOCOMP KZ002 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* THERMOCOMP* KZ002 is a compound based on Acetal containing 10% Milled Glass.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-KZ002-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Moisture Absorption	0.180 %	0.180 %	50% RH, 24 hrs; ASTM D570
	0.260 %	0.260 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm	>= 0.020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.020 - 0.040 cm/cm	0.020 - 0.040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D638
	54.0 MPa	7830 psi	5 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	Type I, 5 mm/min; ASTM D638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	18.6 %	18.6 %	Type I, 5 mm/min; ASTM D638
	21.3 %	21.3 %	5 mm/min; ISO 527
Elongation at Yield	9.6 %	9.6 %	Type I, 5 mm/min; ASTM D638
	10.1 %	10.1 %	5 mm/min; ISO 527
Tensile Modulus	3.41 GPa	495 ksi	1 mm/min; ISO 527
	3.63 GPa	526 ksi	50 mm/min; ASTM D638
Flexural Strength	74.0 MPa	10700 psi	ISO 178
Flexural Modulus	2.77 GPa	402 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	2.95 GPa Metric	428 ksi English	2 mm/min* ISO 178 Comments
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.16 J/cm	15.3 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	49.0 kJ/mÂ²	23.3 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	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	110 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	61.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	106 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	58.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	153 Â°C @Thickness 3.20 mm	307 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 Â°C	307 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
	103 Â°C @Thickness 3.20 mm	217 Â°F @Thickness 0.126 in	annealed; ASTM D648

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