

SABIC Innovative Plastics LNP STAT-KON KD000 Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

LNP* STAT-KON* KD000 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-KD000-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	0.280 %	0.280 %	50% RH, 24 hrs; ASTM D570
	0.330 %	0.330 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.013 cm/cm	0.012 - 0.013 in/in	mold temp=60 ^o C; SABIC Method
	0.015 - 0.016 cm/cm	0.015 - 0.016 in/in	mold temp=100 ^o C; SABIC Method
	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 - 0.010 cm/cm	0.0090 - 0.010 in/in	mold temp=60 ^o C; SABIC Method
	0.011 - 0.012 cm/cm	0.011 - 0.012 in/in	mold temp=100 ^o C; SABIC Method
Linear Mold Shrinkage, Transverse	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.015 - 0.035 cm/cm	0.015 - 0.035 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	47.0 MPa	6820 psi	ISO 527
	54.0 MPa	7830 psi	ASTM D638
Tensile Strength, Yield	53.0 MPa	7690 psi	ISO 527
	58.0 MPa	8410 psi	ASTM D638

Elongation at Break Mechanical Properties	7.2 % Metric	7.2 % English	ASTM D638 Comments
	20 %	20 %	ISO 527
Elongation at Yield	3.6 %	3.6 %	ASTM D638
	5.0 %	5.0 %	ISO 527
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min; ISO 527
	3.50 GPa	508 ksi	50 mm/min; ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ISO 178
	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
	3.25 GPa	471 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.00 J/cm	15.0 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)	37.0 kJ/m ²	17.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J	3.69 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	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	102 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	105 $\text{Å}^\circ\text{C}$	221 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	108 Å°C Metric	226 Å°F English	Comments Unfinished, ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	HB @Thickness 0.700 mm	HB @Thickness 0.0276 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

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