

SABIC Innovative Plastics LNP STAT-LOY K3000SZ Acetal Copoly

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

Material Notes:

LNP* STAT-LOY* K3000SZ is a compound based on Acetal Copolymer resin. Added feature of this material is: AntiStatic.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-K3000SZ-Acetal-Copoly.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	2.20 %	2.20 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0181 cm/cm	0.0181 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0183 cm/cm	0.0183 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM D638
	36.0 MPa	5220 psi	ISO 527
Tensile Strength, Yield	41.0 MPa	5950 psi	ASTM D638
	42.0 MPa	6090 psi	ISO 527
Elongation at Break	49.3 %	49.3 %	ISO 527
	59.5 %	59.5 %	ASTM D638
Elongation at Yield	13.3 %	13.3 %	ISO 527
	15.8 %	15.8 %	ASTM D638
Tensile Modulus	1.50 GPa	218 ksi	1 mm/min; ISO 527
	1.59 GPa	231 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	48.0 MPa	6960 psi	ASTM D790
Flexural Modulus	1.44 GPa	209 ksi	ASTM D790
	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched	1.49 J/cm	2.79 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	29.0 J	21.4 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	17.0 J	12.5 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.24	0.24	ASTM D3702 Modified
K (wear) Factor	28.2 x 10 ⁻⁸ mm ³ /N-M	14.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	133 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	73.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	133 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	73.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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 0.46 MPa (66 psi)	146 $\text{Å}^\circ\text{C}$	295 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	67.0 $\text{Å}^\circ\text{C}$	153 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257

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