

SABIC Innovative Plastics LNP STAT-LOY K3000Z Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* STAT-LOY* K3000Z is a compound based on unfilled Acetal resin. Added feature of this material is: Antistat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-K3000Z-Acetal.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	2.29 %	2.29 %	50% RH, 24 hrs; ASTM D570
	4.28 %	4.28 %	23°C / 50% RH; ISO 62
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	32.0 MPa	4640 psi	ASTM D638
	36.0 MPa	5220 psi	ISO 527
Tensile Strength, Yield	41.0 MPa	5950 psi	ASTM D638
	41.0 MPa	5950 psi	ISO 527
Elongation at Break	49.2 %	49.2 %	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

Mechanical Properties	Metric	English	Comments
Flexural Strength	40.0 MPa	5800 psi	ISO 178
	49.0 MPa	7110 psi	ASTM D790
Flexural Modulus	1.44 GPa	209 ksi	ASTM D790
	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched	NB	NB	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	28.0 J	20.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	16.0 J	11.8 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.42	0.42	ASTM D3702 Modified
Coefficient of Friction, Static	0.25	0.25	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	67.0 $\text{Å}^\circ\text{C}$	153 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648

(264 psi) Thermal Properties	@Thickness 3.20 mm Metric	@Thickness 0.126 in English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China