

SABIC Innovative Plastics LNP STAT-LOY KX96821 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP STAT-LOY+ KX96821 is a compound based on Acetal resin containing Proprietary Filler(s). 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-KX96821-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	3.06 %	3.06 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0188 cm/cm	0.0188 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 cm/cm	0.019 in/in	ASTM D955
	@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	
Linear Mold Shrinkage, Transverse	0.0182 cm/cm	0.0182 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	34.0 MPa	4930 psi	ASTM D638
	39.0 MPa	5660 psi	ISO 527
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527
	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	32.3 %	32.3 %	ISO 527
	54.4 %	54.4 %	ASTM D638
Elongation at Yield	11.9 %	11.9 %	ISO 527
	14.8 %	14.8 %	ASTM D638
Tensile Modulus	1.60 GPa	232 ksi	1 mm/min; ISO 527
	1.85 GPa	268 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	54.0 MPa	7830 psi	ASTM D790
Flexural Modulus	1.54 GPa	223 ksi	ISO 178
	1.60 GPa	232 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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	32.0 J	23.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	18.0 J	13.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	135 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	135 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	75.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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	149 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	82.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	73.0 $\text{Å}^\circ\text{C}$	163 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	82.0 $\text{Å}^\circ\text{C}$	180 $\text{Å}^\circ\text{F}$	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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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