

SABIC Innovative Plastics LNP STAT-LOY KX95702 Acetal

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP STAT-LOY+ KX95702 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-KX95702-Acetal.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Moisture Absorption	4.05 %	4.05 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0174 cm/cm	0.0174 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	24.0 MPa	3480 psi	ASTM D638
	31.0 MPa	4500 psi	ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	ASTM D638
	41.0 MPa	5950 psi	ISO 527
Elongation at Break	52.4 %	52.4 %	ISO 527
	75.5 %	75.5 %	ASTM D638
Elongation at Yield	14.6 %	14.6 %	ISO 527
	18.1 %	18.1 %	ASTM D638
Tensile Modulus	1.11 GPa	161 ksi	1 mm/min; ISO 527
	1.50 GPa	218 ksi	50 mm/min; ASTM D638
Flexural Strength	35.0 MPa	5080 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	1.35 GPa	196 ksi	ISO 178
	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	14.0 kJ/m ²	6.66 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	22.0 J	16.2 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	16.0 J	11.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	124 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	68.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	124 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	68.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	139 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	77.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	139 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	77.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	64.0 $\text{Å}^\circ\text{C}$	147 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	78.0 $\text{Å}^\circ\text{C}$	172 $\text{Å}^\circ\text{F}$	
	@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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