

SABIC Innovative Plastics LNP Stat-loy K3000 Acetal Copoly

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

LNP* Stat-loy* K3000 is a compound based on Acetal Copolymer resin containing Anti-Static. Added features of this material include: Antistat. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-loy-K3000-Acetal-Copoly.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D 792
	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.020 - 0.024 cm/cm	0.020 - 0.024 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.020 - 0.024 cm/cm	0.020 - 0.024 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.019 - 0.024 cm/cm	0.019 - 0.024 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.019 - 0.024 cm/cm	0.019 - 0.024 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 D 638
	43.0 MPa	6240 psi	ISO 527
Tensile Strength, Yield	48.0 MPa	6960 psi	ASTM D 638
	48.0 MPa	6960 psi	ISO 527
Elongation at Break	28.6 %	28.6 %	ISO 527
	48 %	48 %	ASTM D 638
Elongation at Yield	12 %	12 %	ASTM D 638
	12.1 %	12.1 %	ISO 527
Tensile Modulus	1.82 GPa	264 ksi	50 mm/min; ASTM D 638

Mechanical Properties	Metric 1.97 GPa	English 285 ksi	Comments 1 mm/min; ISO 527
Flexural Strength	55.0 MPa	7980 psi	ASTM D 790
	63.0 MPa	9140 psi	ISO 178
Flexural Modulus	1.66 GPa	241 ksi	ASTM D 790
	1.75 GPa	254 ksi	ISO 178
Izod Impact, Notched	1.17 J/cm @Temperature 23.0 Â°C	2.19 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	16.82 J/cm @Temperature 23.0 Â°C	31.51 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	10.0 kJ/mÂ² @Temperature 23.0 Â°C	4.76 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	130 kJ/mÂ² @Temperature 23.0 Â°C	61.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	23.0 J @Temperature 23.0 Â°C	17.0 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 Â°C	270 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	150 Â°C @Thickness 3.20 mm	302 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	76.0 Â°C	169 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	77.0 Â°C @Thickness 3.20 mm	171 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 1.00e+11 ohm-cm	1.00e+10 - 1.00e+11 ohm-cm	ASTM D 257
Surface Resistance	1.00e+10 - 1.00e+11 ohm	1.00e+10 - 1.00e+11 ohm	ASTM D 257

Electrical Properties	Metric	English	Comments
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