

LNP™ STAT-LOY™ K3000Z compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

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

Also known as: LNP* STAT-LOY* Compound K-E

Product reorder name: K3000Z

General Information			
Additive	Antistatic		
Features	Antistatic		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.32	g/cm ³	ASTM D792
--	1.33	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.8	%	
Across Flow : 24 hr	1.8	%	
Water Absorption			
24 hr, 50% RH	2.3	%	ASTM D570
Equilibrium, 23°C, 50% RH	4.3	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1600	MPa	ASTM D638
--	1500	MPa	ISO 527-2/1
Tensile Strength			
Yield	41.8	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2
Break	32.3	MPa	ASTM D638
Break	36.2	MPa	ISO 527-2
Tensile Elongation			
Yield	16	%	ASTM D638
Yield	13	%	ISO 527-2
Break	60	%	ASTM D638
Break	49	%	ISO 527-2
Flexural Modulus			
--	1440	MPa	ASTM D790
--	1500	MPa	ISO 178
Flexural Strength			
--	49.0	MPa	ASTM D790

--	40.1	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	0.42		
vs. Itself - Static	0.25		
Wear Factor - Washer	14.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	No Break		ASTM D256
23°C ²	16	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	No Break		ASTM D4812, ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	28.8	J	ASTM D3763
--	16.7	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	146	°C	
1.8 MPa, Unannealed, 3.20 mm	67.8	°C	
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.3E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	177 to 188	°C	
Middle Temperature	188 to 199	°C	
Front Temperature	199 to 210	°C	
Processing (Melt) Temp	193 to 204	°C	
Mold Temperature	71.1 to 93.3	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		

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