

LNP™ STAT-LOY™ K3000SZ compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-LOY K3000SZ is a compound based on Acetal Copolymer resin. Added feature of this material is: AntiSstatic.

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

Product reorder name: K3000SZ

General Information			
Additive	Antistatic		
Features	Antistatic		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.32	g/cm ³	ASTM D792
--	1.33	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	1.8	%	ASTM D955, ISO 294-4
Across Flow : 24 hr	1.8	%	
Water Absorption (24 hr, 50% RH)	2.2	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1600	MPa	ASTM D638
--	1500	MPa	ISO 527-2/1
Tensile Strength			
Yield	41.4	MPa	ASTM D638
Yield	42.0	MPa	ISO 527-2
Break	31.7	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			
--	48.3	MPa	ASTM D790
--	40.0	MPa	ISO 178
Coefficient of Friction			
vs. Itself - Dynamic	0.42		ASTM D3702 Modified

vs. Itself - Static	0.24		
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	150	J/m	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	29.0	J	ASTM D3763
--	17.0	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
NOTE			
1.	50 mm/min		
2.	80*10*4		

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