LNP™ STAT-LOY™ K3000SZ compound

Acetal (POM) Copolymer

SABIC Innovative Plastics

Message:

LNP STAT-KON K3000SZ is a compound based on Acetal Copolymer resin containing Anti-Static. Added features of this material include: Antistat.
Also known as: LNP* STAT-LOY* Compound K-E HS
Product reorder name: K3000SZ

General Information			
Additive	Antistatic property		
Features	Antistatic property		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.32	g/cm³	ASTM D792
--	1.33	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	1.8	%	ASTM D955
Transverse flow: 24 hours	1.8	%	ASTM D955
Vertical flow direction: 24 hours	1.8	%	ISO 294-4
Flow direction: 24 hours	1.8	%	ISO 294-4
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
Fracture	31.7	MPa	ASTM D638
Fracture	36.2	MPa	ISO 527-2
Tensile Elongation			
Yield	16	%	ASTM D638
Yield	13	%	ISO 527-2
Fracture	60	%	ASTM D638
Fracture	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			ASTM D3702 Modified
With self-dynamics	0.42		ASTM D3702 Modified
With Self-Static	0.24		ASTM D3702 Modified
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/m²	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, 3.20mm	146	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	67.8	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	1.3E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	1.3E-4	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+9 - 1.0E+11	ohms	ASTM D257
NOTE			
1.	50 mm/min		
2.	80*10*4		

Recommended distributors for this material

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