



LNP™ STAT-LOY™ Compound K3000SZ

Americas: COMMERCIAL

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

Product reorder name: K3000SZ

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	420	kgf/cm ²	ASTM D 638
Tensile Stress, break	320	kgf/cm ²	ASTM D 638
Tensile Strain, yield	15.8	%	ASTM D 638
Tensile Strain, break	59.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	16300	kgf/cm ²	ASTM D 638
Flexural Stress	490	kgf/cm ²	ASTM D 790
Flexural Modulus	14600	kgf/cm ²	ASTM D 790
Tensile Stress, yield	42	MPa	ISO 527
Tensile Stress, break	36	MPa	ISO 527
Tensile Strain, yield	13.3	%	ISO 527
Tensile Strain, break	49.3	%	ISO 527
Tensile Modulus, 1 mm/min	1500	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus	1500	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	15	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	295	cm-kgf	ASTM D 3763
Multiaxial Impact	173	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	15	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	67	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.3E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.33E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.3E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.33E-04	1/°C	ISO 11359-2
PHYSICAL			
Density	1.32	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	2.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.81	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.83	%	ISO 294
Wear Factor Washer	14	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D 3702 Modified
Dynamic COF	0.42	-	ASTM D 3702 Modified
Static COF	0.24	-	ASTM D 3702 Modified
Density	1.33	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+09 - 1.E+11	Ohm	ASTM D 257