

Product Texts

LNP STAT-LOY K3000SZ compound is based on POM (Acetal) copolymer resin containing proprietary fillers. Added features of this grade include: Permanently Anti-Static, Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.8	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1.8	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	1500	MPa	ISO 527
Yield stress	42	MPa	ISO 527
Yield strain	13.3	%	ISO 527
Stress at break	36	MPa	ISO 527
Strain at break	49.3	%	ISO 527
Flexural modulus	1500	MPa	ISO 178
Flexural strength	40	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	1590	MPa	ASTM D 638
Tensile Strength at Yield	41	MPa	ASTM D 638
Tensile Strength at Break	31	MPa	ASTM D 638
Elongation at Yield	15.8	%	ASTM D 638
Elongation at Break	59.5	%	ASTM D 638
Flexural Modulus	1440	MPa	ASTM D 790
Flexural Strength	48	MPa	ASTM D 790
Izod Impact notched, 1/8 in	149	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	146	°C	ASTM D 648
DTUL @ 264 psi	67	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1E11	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1330	kg/m ³	ISO 1183
Water Absorption, 24hr	2.2	%	ASTM D 570
Density	1320	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	195 - 205	°C	-
Mold temperature	70 - 95	°C	-
Zone 1	175 - 190	°C	-
Zone 2	190 - 200	°C	-
Zone 3	200 - 210	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific