

LNP* Stat-loy* Compound A3000Z

Asia Pacific: COMMERCIAL

Also known as: A-E

Product Reorder Name: A3000Z

LNP* Stat-loy* A3000Z is a compound based on Acrylonitrile Butadiene Styrene resin containing Anti-Static. Added features of this material include: Antistat.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yield	30	MPa	ASTM D 638
Tensile Stress, break	24	MPa	ASTM D 638
Tensile Strain, yield	3.5	%	ASTM D 638
Tensile Strain, break	52.1	%	ASTM D 638
Tensile Modulus, 50 mm/min	1370	MPa	ASTM D 638
Flexural Modulus	1370	MPa	ASTM D 790
Tensile Stress, yield	36	MPa	ISO 527
Tensile Stress, break	27	MPa	ISO 527
Tensile Strain, yield	3.5	%	ISO 527
Tensile Strain, break	50.1	%	ISO 527
Tensile Modulus, 1 mm/min	1580	MPa	ISO 527
Flexural Stress	45	MPa	ISO 178
Flexural Modulus	1600	MPa	ISO 178
IMPACT	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1420	J/m	ASTM D 4812
Izod Impact, notched, 23°C	389	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	39	J	ASTM D 3763
Multiaxial Impact	35	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	148	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 3.2 mm, unannealed	86	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	73	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.28E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.03E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.27E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.03E-04	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	91	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	78	°C	ISO 75/Af
PHYSICAL	Value	Unit	Standard
Density	1.05	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	1.6	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8 - 1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.77	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.92	%	ISO 294

Density	1.05	g/cm ³	ISO 1183
ELECTRICAL	Value	Unit	Standard
Surface Resistivity	1.E+08 - 1.E+10	Ohm	ASTM D 257

Source GMD, last updated:09/24/2008

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	70 - 80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	200 - 210	°C
Front - Zone 3 Temperature	205 - 215	°C
Middle - Zone 2 Temperature	195 - 205	°C
Rear - Zone 1 Temperature	180 - 195	°C
Mold Temperature	10 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:09/24/2008

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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