



LNP™ STAT-KON™ Compound SX90398

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound PDX-S-90398

Product reorder name: SX90398

LNP STAT-KON™ SX90398 is a compound based on Nylon 12 resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	440	kgf/cm ²	ASTM D 638
Tensile Stress, break	360	kgf/cm ²	ASTM D 638
Tensile Strain, yield	5.3	%	ASTM D 638
Tensile Strain, break	117.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	19400	kgf/cm ²	ASTM D 638
Flexural Stress	630	kgf/cm ²	ASTM D 790
Flexural Modulus	18100	kgf/cm ²	ASTM D 790
Tensile Stress, yield	38	MPa	ISO 527
Tensile Stress, break	35	MPa	ISO 527
Tensile Modulus, 1 mm/min	1440	MPa	ISO 527
Flexural Stress	50	MPa	ISO 178
Flexural Modulus	1760	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	99	cm-kgf	ASTM D 3763
Multiaxial Impact	212	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	85	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	113	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	67	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.03E-04	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	9.93E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.04E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	9.94E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	104	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	73	°C	ISO 75/Af
PHYSICAL			
Density	1.102	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.12	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.7	%	ISO 294
Density	1.09	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.3	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	205	°C
Front - Zone 3 Temperature	230 - 245	°C
Middle - Zone 2 Temperature	205 - 215	°C
Rear - Zone 1 Temperature	180 - 195	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm