



LNP™ STAT-KON™ Compound CD000I

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound C-HI

Product reorder name: CD000I

LNP STAT-KON CD000I is a compound based on Polystyrene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	230	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	160	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	1.2	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	9.7	%	ASTM D 638
Tensile Modulus, 5 mm/min	23200	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	430	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	23200	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	23	MPa	ISO 527
Tensile Stress, break, 5 mm/min	17	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.2	%	ISO 527
Tensile Strain, break, 5 mm/min	7.1	%	ISO 527
Tensile Modulus, 1 mm/min	2120	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus, 2 mm/min	2100	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	75	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Multiaxial Impact	157	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	190	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	87	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	75	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.8E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.07E-04	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	78	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.08	-	ASTM D 792
Density	1.08	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.3 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.13	%	ISO 62
ELECTRICAL			
Surface Resistivity	3.E+00 - 5.E+00	Ohm	ASTM D 257



LNP™ STAT-KON™ Compound CD0001

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	250	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	40 - 65	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm