



LNP™ STAT-KON™ Compound SD000

Americas: COMMERCIAL

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

Product reorder name: SD000

LNP STAT-KON SD000 is an unfilled Nylon 12 compound. Added feature of this grade is: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	520	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	400	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	13.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	28.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	22500	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	20900	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	49	MPa	ISO 527
Tensile Stress, break, 5 mm/min	44	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	11.3	%	ISO 527
Tensile Strain, break, 5 mm/min	17.1	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Stress	67	MPa	ISO 178
Flexural Modulus, 2 mm/min	1980	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	194	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Multiaxial Impact	15	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	28	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	219	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	158	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	96	°C	ASTM D 648



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THERMAL			
CTE, -30°C to 30°C, flow	9.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.08E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	137	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	61	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.13	-	ASTM D 792
Density	1.124	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.15	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1 - 3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 4	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.21	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+00 - 4.E+00	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm