+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-KON™ Compound DX07323
Asia Pacific: COMMERCIAL

LNP STAT-KON DX07323 is a compound based on polycarbonate resin containing conductive fillers. Added features of this compound includes: ESD safe and excellent low-temperature impact performance, intended for compliance to ATEX.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	450	kgf/cm²	ASTM D 638
Tensile Stress, break	560	kgf/cm²	ASTM D 638
Tensile Strain, yield	5	%	ASTM D 638
Tensile Strain, break	9	%	ASTM D 638
Tensile Modulus, 5 mm/min	24400	kgf/cm²	ASTM D 638
Flexural Stress	850	kgf/cm²	ASTM D 790
Flexural Modulus	22400	kgf/cm²	ASTM D 790
Tensile Stress, yield, 5 mm/min	55	MPa	ISO 527
Tensile Stress, break, 5 mm/min	44	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5	%	ISO 527
Tensile Strain, break, 5 mm/min	9	%	ISO 527
Tensile Modulus, 1 mm/min	2400	MPa	ISO 527
Flexural Stress, break, 2 mm/min	88	MPa	ISO 178
Flexural Modulus, 2 mm/min	2400	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	163	cm-kgf/cm	ASTM D 4812
Izod Impact, unnotched, -40°C	152	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	18	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -40°C	10	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	130	kJ/m²	ISO 180/1U
Izod Impact, unnotched 80*10*4 -40°C	100	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	16	kJ/m²	ISO 180/1A

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-KON™ Compound DX07323

Asia Pacific: COMMERCIAL

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
IMPACT			
Izod Impact, notched 80*10*4 -40°C	10	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	5.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	5.E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	124	°C	ISO 75/Af
PHYSICAL			
Density	1.26	g/cm³	ASTM D 792
Mold Shrinkage, flow (5)	0.5	%	SABIC Method
Mold Shrinkage, xflow (5)	0.5	%	SABIC Method
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Melt Flow Rate, 300°C/10 kgf	55	g/10 min	ASTM D 1238
Density	1.26	g/cm³	ISO 1183
Melt Volume Rate, MVR at 300°C/10.0 kg	50	cm³/10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	1.E+06 - 1.E+10	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+06 - 1.E+10	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Recognized, 94V-1 Flame Class Rating (3)	2.5	mm	UL 94

+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

LNP™ STAT-KON™ Compound DX07323

Asia Pacific: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	48	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	295 - 315	°C
Nozzle Temperature	290 - 310	°C
Front - Zone 3 Temperature	295 - 315	°C
Middle - Zone 2 Temperature	280 - 305	°C
Rear - Zone 1 Temperature	270 - 295	°C
Mold Temperature	70 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	40 - 70	rpm
Shot to Cylinder Size	40 - 60	%
Vent Depth	0.025 - 0.076	mm