



LNP™ STAT-KON™ Compound DX05301C

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound PDX-D-05301 CCS

Product reorder name: DX05301C

LNP STAT-KON DX05301C is a compound based on Polycarbonate containing Proprietary Filler(s). Added features of this material include: Clean Compounding System, Electrically Conductive, Low Ionic, Low Outgassing, Low LPC and ESD safe. Suitable for Semiconductor and Hard Disk Drive (HDD) Applications.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	490	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	610	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	9.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	26400	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	970	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	56	MPa	ISO 527
Tensile Stress, break, 5 mm/min	56	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	1.5	%	ISO 527
Tensile Strain, break, 5 mm/min	1.5	%	ISO 527
Tensile Modulus, 1 mm/min	2490	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	77	MPa	ISO 178
Flexural Modulus, 2 mm/min	2480	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.1E-01	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.2E-01	1/°C	ASTM E 831
Vicat Softening Temp, Rate B/120	146	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af



LNP™ STAT-KON™ Compound DX05301C

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Specific Gravity	1.22	-	ASTM D 792
Melt Flow Rate, 300°C/5.0 kgf	22.6	g/10 min	ASTM D 1238
Density	1.22	g/cm ³	ISO 1183
Melt Volume Rate, MVR at 300°C/5.0 kg	22	cm ³ /10 min	ISO 1133
ELECTRICAL			
Volume Resistivity	2.2E+05 - 5.5E+08	Ohm-cm	ASTM D 257
Surface Resistivity	2.5E+05 - 4.5E+08	Ohm	ASTM D 257



LNP™ STAT-KON™ Compound DX05301C

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm