



LNP™ STAT-KON™ Compound DX13320C

Asia Pacific: COMMERCIAL

LNPTM Stat-KonTM DX13320C is an electrical conductive thermoplastic compound featuring electrostatic discharge (ESD) safe performance based on a unique Ultra Clean Polycarbonate (PC) resin reinforced with 20% carbon fiber. This compound provides good stiffness, dimension stability and has extremely high level of cleanliness for the most demanding applications in the Hard Disk Drive and Semiconductor industry. A unique feature of this material is its low C18-C40 hydrocarbons and this compound is manufactured using the LNP Clean Compounding Solution (CCS) technology.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1540	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
Tensile Modulus, 5 mm/min	154700	kgf/cm ²	ASTM D 638
Flexural Stress	2130	kgf/cm ²	ASTM D 790
Flexural Modulus	117200	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	150	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	14590	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	187	MPa	ISO 178
Flexural Modulus, 2 mm/min	11600	MPa	ISO 178
IMPACT			
Charpy Impact, unnotched, 23°C	28	kJ/m ²	ISO 179/2C
Izod Impact, unnotched, 23°C	41	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Charpy Impact, notched, 23°C	7	kJ/m ²	ISO 179/2C
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	117	°C	ASTM D 648
CTE, -40°C to 40°C, flow	9.2E-06	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.97E-05	1/°C	ASTM E 831
PHYSICAL			
Specific Gravity	1.26	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.1 - 0.2	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm (5)	0.2 - 0.4	%	SABIC Method
Melt Volume Rate, MVR at 300°C/5.0 kg	34	cm ³ /10 min	ISO 1133



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
ELECTRICAL			
Volume Resistivity	5.E+03 - 5.E+05	Ohm-cm	ASTM D 257
Surface Resistivity	5.E+03 - 5.E+05	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	90 - 110	°C
Drying Time	3 - 5	hrs
Melt Temperature	280 - 320	°C
Nozzle Temperature	280 - 320	°C
Front - Zone 3 Temperature	280 - 320	°C
Middle - Zone 2 Temperature	280 - 320	°C
Rear - Zone 1 Temperature	250 - 280	°C
Mold Temperature	90 - 120	°C
Back Pressure	1 - 5	MPa
Screw Speed	30 - 100	rpm