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

LNP™ STAT-KON™ Compound DD000

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound D
Product reorder name: DD000

LNP STAT-KON™ DD000 is a compound based on Polycarbonate resin containing Carbon Powder. Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	640	kgf/cm²	ASTM D 638
Tensile Stress, break	570	kgf/cm²	ASTM D 638
Tensile Strain, yield	4.9	%	ASTM D 638
Tensile Strain, break	9.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	27400	kgf/cm²	ASTM D 638
Flexural Stress	1040	kgf/cm²	ASTM D 790
Flexural Modulus	29500	kgf/cm²	ASTM D 790
Tensile Stress, yield	60	MPa	ISO 527
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, yield	4.4	%	ISO 527
Tensile Strain, break	8.8	%	ISO 527
Tensile Modulus, 1 mm/min	2900	MPa	ISO 527
Flexural Stress	102	MPa	ISO 178
Flexural Modulus	3100	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	124	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	85	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	98	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	138	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	127	°C	ASTM D 648

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	127	°C	ISO 75/Af
PHYSICAL			
Density	1.24	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.14	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.84	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.82	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.25	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP

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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