



LNP™ STAT-KON™ Compound DE002

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DC-1002

Product reorder name: DE002

LNP™ STAT-KON™ DE002 is a Polycarbonate base resin containing 10% Carbon Fiber. Added feature of this grade is: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	980	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	7.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	113600	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1610	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	76000	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	97	MPa	ISO 527
Tensile Strain, break, 5 mm/min	7.2	%	ISO 527
Tensile Modulus, 1 mm/min	10340	MPa	ISO 527
Flexural Stress	149	MPa	ISO 178
Flexural Modulus, 2 mm/min	7440	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	69	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	146	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	141	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.57E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	5.79E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	145	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Af
PHYSICAL			
Density	1.29	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.08	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Density	1.29	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.08	%	ISO 62
ELECTRICAL			
Volume Resistivity	4.E+00 - 6.E+00	Ohm-cm	ASTM D 257
Surface Resistivity	3.E+00 - 5.E+00	Ohm	ASTM D 257



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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