



LNP™ STAT-KON™ Compound SE003

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound SC-1003

Product reorder name: SE003

LNP STAT-KON SE003 is a compound based on Nylon 12 resin containing 15% Carbon Fiber. Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	1060	kgf/cm ²	ASTM D 638
Tensile Stress, break	1060	kgf/cm ²	ASTM D 638
Tensile Strain, yield	3.8	%	ASTM D 638
Tensile Strain, break	3.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	77300	kgf/cm ²	ASTM D 638
Flexural Stress	1190	kgf/cm ²	ASTM D 790
Flexural Modulus	63200	kgf/cm ²	ASTM D 790
Tensile Stress, break	120	MPa	ISO 527
Tensile Strain, break	4	%	ISO 527
Tensile Modulus, 1 mm/min	8700	MPa	ISO 527
Flexural Modulus	7000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	74	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	137	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	11	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	176	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	162	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.82E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	160	°C	ISO 75/Af
PHYSICAL			
Density	1.07	g/cm ³	ASTM D 792



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ISO 294
Density	1.08	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.E+06	Ohm	ASTM D 257



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	225 - 240	°C
Front - Zone 3 Temperature	225 - 240	°C
Middle - Zone 2 Temperature	220 - 230	°C
Rear - Zone 1 Temperature	215 - 225	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm