



LNP™ STAT-KON™ Compound WE002

Americas: COMMERCIAL

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

Product reorder name: WE002

LNP STAT-KON™ WE002 is a compound based on PBT resin containing 10% Carbon Fiber. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1360	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	103400	kgf/cm ²	ASTM D 638
Flexural Stress	1840	kgf/cm ²	ASTM D 790
Flexural Modulus	75300	kgf/cm ²	ASTM D 790
Tensile Stress, break	125	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Tensile Modulus, 1 mm/min	10460	MPa	ISO 527
Flexural Stress	184	MPa	ISO 178
Flexural Modulus	7760	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	44	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	3	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	72	cm-kgf	ASTM D 3763
Multiaxial Impact	17	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	29	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	208	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.17E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.91E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.18E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.92E-05	1/°C	ISO 11359-2



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THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	201	°C	ISO 75/Af
PHYSICAL			
Density	1.35	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.09	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.9 - 1.1	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.39 - 0.56	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.91 - 1.14	%	ISO 294
Density	1.34	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
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	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	240 - 265	°C
Front - Zone 3 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	220 - 230	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm