



LNP™ STAT-KON™ Compound AE003

Americas: COMMERCIAL

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

Product reorder name: AE003

LNP* STAT-KON* AE003 is a compound based on ABS containing 15% 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	930	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	0.9	%	ASTM D 638
Tensile Modulus, 5 mm/min	130900	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1160	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	960	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	128400	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	93	MPa	ISO 527
Tensile Strain, break, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	11530	MPa	ISO 527
Flexural Stress	119	MPa	ISO 178
Flexural Modulus, 2 mm/min	12290	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	27	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	6	cm-kgf/cm	ASTM D 256
Multiaxial Impact	22	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	72	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	16	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	105	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	102	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.9E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	6.6E-05	1/°C	ASTM D 696



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THERMAL			
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	104	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	104	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.14	-	ASTM D 792
Density	1.135	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.19	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.55	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.28	%	ISO 62
ELECTRICAL			
Surface Resistivity	2.E+00 - 4.E+00	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	0.05 - 0.1	%
Melt Temperature	260	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	205 - 215	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm