



LNP™ STAT-KON™ Compound ME003S

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound MC-1003 HS
Product reorder name: ME003S

LNP STAT-KON ME003S is a compound based on Polypropylene resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive, Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	480	kgf/cm ²	ASTM D 638
Tensile Stress, break	400	kgf/cm ²	ASTM D 638
Tensile Strain, yield	0.7	%	ASTM D 638
Tensile Strain, break	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	91300	kgf/cm ²	ASTM D 638
Flexural Stress	660	kgf/cm ²	ASTM D 790
Flexural Modulus	70300	kgf/cm ²	ASTM D 790
Tensile Stress, yield	47	MPa	ISO 527
Tensile Stress, break	44	MPa	ISO 527
Tensile Strain, yield	0.7	%	ISO 527
Tensile Strain, break	1	%	ISO 527
Tensile Modulus, 1 mm/min	8590	MPa	ISO 527
Flexural Stress	62	MPa	ISO 178
Flexural Modulus	7000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	13	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	150	cm-kgf	ASTM D 3763
Multiaxial Impact	32	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	1	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	153	°C	ASTM D 648





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THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	133	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.02E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	2.88E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.9E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	150	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
PHYSICAL			
Density	0.99	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.4 - 0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.52	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.6	%	ISO 294
Density	0.99	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+02 - 1.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
Melt Temperature	225 - 250	°C
Front - Zone 3 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

