+135-3858-6433 (GuangDong)
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LNP™ STAT-KON™ Compound MD000IS

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound M-1 HI BK8-114
Product reorder name: MD000IS

LNP STAT-KON* MD000IS is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	220	kgf/cm²	ASTM D 638
Tensile Stress, break	170	kgf/cm²	ASTM D 638
Tensile Strain, yield	9	%	ASTM D 638
Tensile Strain, break	133.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	4900	kgf/cm²	ASTM D 638
Flexural Stress	280	kgf/cm²	ASTM D 790
Flexural Modulus	11600	kgf/cm²	ASTM D 790
Tensile Stress, yield	18	MPa	ISO 527
Tensile Stress, break	17	MPa	ISO 527
Tensile Modulus, 1 mm/min	1100	MPa	ISO 527
Flexural Stress	27	MPa	ISO 178
Flexural Modulus	1200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	158	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	84	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	248	cm-kgf	ASTM D 3763
Multiaxial Impact	316	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	112	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	65	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	81	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	52	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E 831

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	1.19E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.19E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	56	°C	ISO 75/Af
PHYSICAL			
Density	0.98	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.03	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1.6 - 1.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	1.6 - 1.8	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	1.58 - 1.8	%	ISO 294
Density	0.97	g/cm³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+01 - 1.E+06	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.01	< seconds	FTMS101B

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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

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