



LNP™ STAT-KON™ Compound RD000I

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound R-HI

Product reorder name: RD000I

LNP STAT-KON RD000I is a compound based on Nylon 66 resin containing Carbon Powder. Added features of this material include: Electrically Conductive, High Impact.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	410	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	18	%	ASTM D 638
Tensile Modulus, 50 mm/min	21600	kgf/cm ²	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	19500	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	41	MPa	ISO 527
Tensile Strain, break, 5 mm/min	18	%	ISO 527
Tensile Modulus, 1 mm/min	2190	MPa	ISO 527
Flexural Stress	62	MPa	ISO 178
Flexural Modulus, 2 mm/min	2020	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	184	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Multiaxial Impact	213	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	165	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	155	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	206	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	71	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.09E+02	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.18E+02	1/°C	ASTM D 696
Thermal Conductivity	2.8	W/m-°C	ASTM E 1530
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	191	°C	ISO 75/Bf



LNP™ STAT-KON™ Compound RD0001

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	68	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.15	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.49	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	2 - 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	2 - 4	%	ASTM D 955
Density	1.15	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.73	%	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	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	280 - 305	°C
Front - Zone 3 Temperature	295 - 305	°C
Middle - Zone 2 Temperature	280 - 295	°C
Rear - Zone 1 Temperature	265 - 275	°C
Mold Temperature	95 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm