

LNP* Stat-kon* Compound QD000I

Asia Pacific: COMMERCIAL

Also known as: LNP* Stat-kon* Compound Q-HI

Product reorder name: QD000I

LNP STAT-KON* QD000I is a compound based on Nylon 6/10 resin containing Carbon Powder. Added features of this material include: Electrically Conductive.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, break	320	kgf/cm ²	ASTM D 638
Tensile Strain, break	52.7	%	ASTM D 638
Flexural Stress	550	kgf/cm ²	ASTM D 790
Flexural Modulus	17500	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	61	cm-kgf/cm	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	55	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.17E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.17E-04	1/°C	ASTM E 831
PHYSICAL			
Density	1.11	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.28	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.2 - 0.4	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	1.E+02 - 1.E+04	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 - 1.E+04	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	0.12 - 0.2	%
Melt Temperature	270 - 275	°C
Front - Zone 3 Temperature	270 - 280	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm