

LNP* Stat-kon* Compound QD000I

Americas: COMMERCIAL

Also known as: Q-HI

Product Reorder Name: QD000I

LNP* Stat-kon* QD000I is a compound based on Nylon 6/10 resin containing Carbon Powder, Impact Modifier. Added features of this material include: Electrically Conductive, High Impact.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, break	31	MPa	ASTM D 638
Tensile Strain, break	52.7	%	ASTM D 638
Flexural Stress	54	MPa	ASTM D 790
Flexural Modulus	1720	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	603	J/m	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
Mold Shrinkage, flow, 24 hrs	1 - 3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1 - 3	%	ISO 294
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

Source GMD, last updated:10/01/2004

Processing

Parameter	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

Source GMD, last updated:10/01/2004

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(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.

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