LNP™ STAT-KON™ COMPOUND QD000I

Q-HI

DESCRIPTION

LNP STAT-KON QD000I compound is based on Nylon 6/10 resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, High Impact.

GENERAL INFORMATION	
Features	Electrically Conductive, Impact resistant, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polyamide 610 (Nylon 610)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, break	31	MPa	ASTM D638
Tensile Strain, break	52.7	%	ASTM D638
Flexural Stress	54	MPa	ASTM D790
Flexural Modulus	1720	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	603	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 3.2mm, unannealed	55	°C	ASTM D648
CTE, -40°C to 40°C, flow	1.17E-04	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	1.17E-04	1/°C	ASTM E831
PHYSICAL [1]			
Density	1.11	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.28	%	ASTM D570
ELECTRICAL [1]			
Volume Resistivity [2]	1.E+02 – 1.E+04	Ω.cm	ASTM D257
Surface Resistivity [2]	1.E+02 – 1.E+04	Ω	ASTM D257
INJECTION MOLDING [3]			
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.
(2) Measurement meets requirements as specified in ASTM D4496.
(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

ADDITIONAL PRODUCT NOTES

No PFAS intentionally added: The grade listed in this document does not contain PFAS intentionally added during Seller's manufacturing process and is not expected to contain unintentional PFAS impurities. Each user is responsible for evaluating the presence of unintentional PFAS impurities.

DISCLAIMER

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