

# LNPTM STAT-KONTM COMPOUND QD0001

Q-HI

## DESCRIPTION

LNP STAT-KON QD0001 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
<b>MECHANICAL <sup>(1)</sup></b>			
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
<b>IMPACT <sup>(1)</sup></b>			
Izod Impact, notched, 23°C	603	J/m	ASTM D256
<b>THERMAL <sup>(1)</sup></b>			
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
<b>PHYSICAL <sup>(1)</sup></b>			
Density	1.11	g/cm <sup>3</sup>	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.28	%	ASTM D570
<b>ELECTRICAL <sup>(1)</sup></b>			
Volume Resistivity <sup>(2)</sup>	1.E+02 – 1.E+04	Ω.cm	ASTM D257
Surface Resistivity <sup>(2)</sup>	1.E+02 – 1.E+04	Ω	ASTM D257
<b>INJECTION MOLDING <sup>(3)</sup></b>			
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	

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.

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