

LNP™ STAT-KON™ QD000I compound

Polyamide 610
SABIC Innovative Plastics

Message:

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

Also known as: LNP* STAT-KON* Compound Q-HI

Product reorder name: QD000I

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.20 - 0.40	%	ASTM D955
Water Absorption (24 hr, 50% RH)	0.28	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	31.6	MPa	ASTM D638
Tensile Elongation (Break)	53	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	54.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	600	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	55.0	°C	ASTM D648
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	1.2E-4	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 - 1.0E+4	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.12 - 0.20	%	
Rear Temperature	249 - 260	°C	
Middle Temperature	260 - 271	°C	

Front Temperature	271 - 282	°C
Processing (Melt) Temp	271 - 277	°C
Mold Temperature	82.2 - 93.3	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

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