

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, High Impact.

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

Product reorder name: QD000I

General Information			
Filler / Reinforcement	Carbon Powder		
Features	Electrically Conductive		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	1.0 to 3.0	%	ISO 294-4
Flow : 24 hr	1.0 to 3.0	%	ISO 294-4
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
CLTE			ASTM E831
Flow : -40 to 40°C	1.2E-4	cm/cm/°C	
Transverse : -40 to 40°C	1.2E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 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 to 0.20	%
Rear Temperature	249 to 260	°C
Middle Temperature	260 to 271	°C
Front Temperature	271 to 282	°C
Processing (Melt) Temp	271 to 277	°C
Mold Temperature	82.2 to 93.3	°C
Back Pressure	0.172 to 0.344	MPa
Screw Speed	30 to 60	rpm

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Recommended distributors for this material

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