LNP™ STAT-KON™ QE002S compound

Polyamide 610

SABIC Innovative Plastics

Message:

LNP STAT-KON QE002S is a compound based on Nylon 6/10 containing 10% carbon Fiber. Added features of this material include: Heat Stabilized, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound QC-1002 HS
Product reorder name: QE002S

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Electrically Conductive Heat Stabilized		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.12	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.60	%	
Across Flow : 24 hr	0.80 to 1.0	%	
Water Absorption			
24 hr, 50% RH	0.28	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.37	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	8480	MPa	ASTM D638
--	8380	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	144	MPa	ASTM D638
Break [3]	143	MPa	ASTM D638
Break	142	MPa	ISO 527-2/5
Tensile Elongation			
Yield [4]	2.8	%	ASTM D638
Break [5]	2.9	%	ASTM D638
Break	2.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [6]	7160	MPa	ASTM D790
-- [7]	6720	MPa	ISO 178
Flexural Stress			
--	195	MPa	ISO 178

Yield, 50.0 mm Span [8]	201	MPa	ASTM D790
Break, 50.0 mm Span [9]	197	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	43	J/m	ASTM D256
23°C [10]	4.4	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	480	J/m	ASTM D4812
23°C [11]	32	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	7.32	J	ASTM D3763
--	1.24	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	222	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [12]	220	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	205	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [13]	203	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	8.1E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+4 to 1.0E+6	ohms	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	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		

8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

Recommended distributors for this material

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