

LNP™ STAT-KON™ WE002 compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP STAT-KON* WE002 is a compound based on Polybutylene Terephthalate resin containing Carbon Fiber. Added features of this material include:
Electrically Conductive.
Also known as: LNP* STAT-KON* Compound WC-1002
Product reorder name: WE002

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.35	g/cm ³	ASTM D792
--	1.34	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40 - 0.60	%	ASTM D955
Transverse flow: 24 hours	0.90 - 1.1	%	ASTM D955
Vertical flow direction: 24 hours	0.91 - 1.1	%	ISO 294-4
Flow direction: 24 hours	0.39 - 0.56	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.092	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.11	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	10100	MPa	ASTM D638
--	10500	MPa	ISO 527-2/1
Tensile Strength			
Fracture	133	MPa	ASTM D638
Fracture	125	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.5	%	ASTM D638
Fracture	2.0	%	ISO 527-2
Flexural Modulus			
--	7390	MPa	ASTM D790
--	7760	MPa	ISO 178
Flexural Strength			
--	181	MPa	ASTM D790
--	185	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ²	4.7	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	29	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	7.07	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	208	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	201	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.2E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	7.9E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 - 232	°C	
Middle Temperature	243 - 254	°C	
Front Temperature	260 - 271	°C	
Processing (Melt) Temp	238 - 266	°C	
Mold Temperature	82.2 - 98.9	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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