

LNP™ STAT-KON™ WS002I compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP STAT-KON WS002I is a compound based on PBT resin containing 10% Stainless Steel. Added features of this material include: Electrically Conductive, High Impact.

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

Product reorder name: WS002I

General Information			
Filler / Reinforcement	Stainless Steel Fiber,10% Filler by Weight		
Features	Electrically Conductive		
	High Impact Resistance		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.31	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	1.0 to 3.0	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Water Absorption			
24 hr, 50% RH	0.090	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.13	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2270	MPa	ASTM D638
--	2150	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	37.0	MPa	ISO 527-2/5
Break ³	35.0	MPa	ASTM D638
Break	34.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Yield	4.2	%	ISO 527-2/5
Break ⁵	16	%	ASTM D638
Break	17	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2030	MPa	ASTM D790
-- ⁷	1920	MPa	ISO 178

Flexural Stress			
--	67.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	63.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	70	J/m	ASTM D256
23°C ⁹	7.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ¹⁰	70	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	6.20	J	ASTM D3763
--	7.90	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	173	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	115	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	59.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	58.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	9.5E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 4.0	ohms	ASTM D257
NOTE			
1.	50 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.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	80*10*4 mm		

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