

LNP™ STAT-KON™ TD000 compound

Polyurethane
SABIC Innovative Plastics

Message:

LNP STAT-KON TD000 is an unfilled compound based on Polyurethane resin. Added feature of this material is: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound T
Product reorder name: TD000

General Information			
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
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	0.50	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.79	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	185	MPa	ASTM D638
--	305	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	26.0	MPa	ASTM D638
Yield	24.0	MPa	ISO 527-2/5
Break	25.5	MPa	ASTM D638
Break	24.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	160	%	ASTM D638
Yield	140	%	ISO 527-2/5
Break	160	%	ASTM D638
Break	140	%	ISO 527-2/5
Flexural Modulus			
--	368	MPa	ASTM D790
-- ⁴	354	MPa	ISO 178
Flexural Strength			
--	6.89	MPa	ASTM D790
--	16.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	790	J/m	ASTM D256
23°C ⁵	79	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C ⁶	87	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	50.7	J	ASTM D3763
--	55.5	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	70.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	69.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	47.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	48.0	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.2E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0 to 5.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	93.0 to 104	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.030	%	
Suggested Shot Size	40 to 80	%	
Rear Temperature	193 to 210	°C	
Middle Temperature	193 to 216	°C	
Front Temperature	199 to 221	°C	
Nozzle Temperature	204 to 227	°C	
Processing (Melt) Temp	210	°C	
Mold Temperature	16.0 to 43.0	°C	
Back Pressure	0.170 to 0.340	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	2.0 mm/min		
5.	80*10*4		
6.	80*10*4		
7.	80*10*4 mm		
8.	80*10*4 mm		

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Recommended distributors for this material

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