

LNP™ STAT-KON™ AD000Z compound

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

LNP Stat-Kon AD000Z is a compound based on ABS resin with carbon powder. Grade characteristics: a statically conductive extrusion grade.

Also known as: LNP* STAT-KON* Compound A- E

Product reorder name: AD000Z

General Information			
UL YellowCard	E121562-101343396		
Filler / Reinforcement	Carbon Powder		
Features	Statically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	0.50 to 0.70	%	
Water Absorption			
24 hr, 50% RH	0.28	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.41	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2780	MPa	ASTM D638
--	2690	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	41.0	MPa	ASTM D638
Yield	41.0	MPa	ISO 527-2/5
Break ³	37.0	MPa	ASTM D638
Break	37.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.9	%	ASTM D638
Yield	2.0	%	ISO 527-2/5
Break ⁵	2.5	%	ASTM D638
Break	2.7	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	4280	MPa	ASTM D790
-- ⁷	2570	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	34	J/m	ASTM D256

23°C ⁸	4.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C ⁹	23	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.90	J	ASTM D3763
23°C, Total Energy	3.90	J	ASTM D3763
--	1.60	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	96.0	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	95.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	85.0	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	84.0	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0 to 6.0	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050 to 0.10	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	193 to 204	°C	
Front Temperature	204 to 216	°C	
Processing (Melt) Temp	199 to 210	°C	
Mold Temperature	10.0 to 48.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
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.	80*10*4		
9.	80*10*4		
10.	80*10*4 mm		
11.	80*10*4 mm		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT