

LNP™ STAT-KON™ SX90398 compound

Polyamide 12
SABIC Innovative Plastics

Message:

LNP STAT-KON* SX90398 is a compound based on Nylon 12 resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound PDX-S-90398
Product reorder name: SX90398

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	1.1	%	
Across Flow : 24 hr	1.7	%	
Water Absorption			
24 hr, 50% RH	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1910	MPa	ASTM D638
--	1440	MPa	ISO 527-2/1
Tensile Strength			
Yield	44.0	MPa	ASTM D638
Yield	38.0	MPa	ISO 527-2
Break	36.1	MPa	ASTM D638
Break	35.0	MPa	ISO 527-2
Tensile Elongation			ASTM D638
Yield	5.3	%	
Break	120	%	
Flexural Modulus			
--	1780	MPa	ASTM D790
--	1760	MPa	ISO 178
Flexural Strength			
--	62.4	MPa	ASTM D790
--	50.9	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	75	J/m	ASTM D256

23°C ²	7.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	No Break		ASTM D4812
23°C ³	85	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	9.73	J	ASTM D3763
--	20.8	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	114	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	104	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	67.7	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	73.8	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.0E-4	cm/cm/°C	
Transverse : -40 to 40°C	9.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.12 to 0.20	%	
Rear Temperature	182 to 193	°C	
Middle Temperature	204 to 216	°C	
Front Temperature	232 to 243	°C	
Processing (Melt) Temp	204	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		
5.	80*10*4 mm		

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