

LNP™ STAT-KON™ 9X02785 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* 9X02785 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound PDX-D-02785

Product reorder name: 9X02785

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.27	g/cm ³	
--	1.26	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.40 to 0.70	%	
Across Flow : 24 hr	0.50 to 0.80	%	
Water Absorption			
24 hr, 50% RH	0.091	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.14	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2850	MPa	ASTM D638
--	2760	MPa	ISO 527-2/1
Tensile Strength			
Yield	64.1	MPa	ASTM D638
Yield ²	63.0	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/5
Break ³	52.0	MPa	ASTM D638
Break	52.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.3	%	ASTM D638
Yield	2.9	%	ISO 527-2/5
Break	4.0	%	ASTM D638
Break ⁵	7.8	%	ASTM D638
Break	3.1	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	2920	MPa	ASTM D790

--	2900	MPa	ASTM D790
-- ⁷	2800	MPa	ISO 178
Flexural Strength			
--	103	MPa	ASTM D790
--	96.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	107	MPa	ASTM D790
Break, 50.0 mm Span ⁹	75.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	60	J/m	ASTM D256
23°C ¹⁰	7.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2200	J/m	ASTM D4812
23°C ¹¹	150	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	35.7	J	ASTM D3763
--	35.4	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	117	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	114	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	106	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	103	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	6.8E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+2 to 1.0E+7	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°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.	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.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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