LNP™ STAT-KON™ DX96717C compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DX96717C is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Flame Retardant.
Also known as: LNP* STAT-KON* Compound PDX-D-96717 LEX
Product reorder name: DX96717C

General Information			
Filler / Reinforcement	Proprietary		
Features	Electrically Conductive Flame Retardant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.30	g/cm³	ASTM D792
Molding Shrinkage			
Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.70	%	ASTM D955
Across Flow : 24 hr	0.75	%	ISO 294-4
Flow : 24 hr	0.75	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.17	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2480	MPa	ASTM D638
--	2700	MPa	ISO 527-2/1
Tensile Strength			
Yield	63.7	MPa	ASTM D638
Yield	61.1	MPa	ISO 527-2
Break	54.8	MPa	ASTM D638
Break	51.9	MPa	ISO 527-2
Tensile Elongation			
Yield	5.0	%	ASTM D638
Yield	4.7	%	ISO 527-2
Break	9.9	%	ASTM D638
Break	11	%	ISO 527-2
Flexural Modulus			
--	2900	MPa	ASTM D790

--	2800	MPa	ISO 178
Flexural Strength			
--	99.0	MPa	ASTM D790
--	98.9	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C [2]	9.3	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	1800	J/m	ASTM D4812
23°C [3]	120	kJ/m²	ISO 180/1U
Instrumented Dart Impact (23°C, Energy at Peak Load)	27.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	131	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [4]	135	°C	ISO 75-2/Af
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 to 1.0E+8	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.80 mm, Testing by SABIC)	V-0		UL 94
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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

Recommended distributors for this material

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