LNP™ STAT-KON™ DX04490 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DX04490 is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound PDX-D-04490
Product reorder name: DX04490

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.23	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.40	%	ASTM D955
Transverse flow: 24 hours	0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.50	%	ISO 294-4
Flow direction: 24 hours	0.42	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.20	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2990	MPa	ASTM D638
--	2720	MPa	ISO 527-2/1
Tensile Strength			
Yield	60.7	MPa	ASTM D638
Yield	61.1	MPa	ISO 527-2
Fracture	53.8	MPa	ASTM D638
Fracture	54.3	MPa	ISO 527-2
Tensile Elongation			
Yield	4.2	%	ASTM D638
Yield	4.5	%	ISO 527-2
Fracture	16	%	ASTM D638
Fracture	8.5	%	ISO 527-2
Flexural Modulus			
--	2720	MPa	ASTM D790
--	2510	MPa	ISO 178
Flexural Strength			
--	89.6	MPa	ASTM D790
--	75.7	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	48	J/m	ASTM D256
23°C [2]	5.5	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	2300	J/m	ASTM D4812
23°C [3]	170	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	4.26	J	ASTM D3763
--	9.43	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	132	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	134	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
Flow: -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	6.4E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	5.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	6.1E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	3.0	ohms	ASTM D257
Volume Resistivity	3.5	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 - 304	°C	
Middle Temperature	310 - 321	°C	
Front Temperature	321 - 332	°C	
Processing (Melt) Temp	304 - 327	°C	
Mold Temperature	82.2 - 110	°C	
Back Pressure	0.172 - 0.344	MPa	
Screw Speed	30 - 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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