LNP™ STAT-KON™ DX05499 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DX05499 is a compound based on Polycarbonate resin containing Carbon Powder, Flame Retardant. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DX-7
Product reorder name: DX05499

General Information			
Filler / Reinforcement	Carbon powder		
Features	Conductivity Flame retardancy		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.34	g/cm³	ASTM D792
Molding Shrinkage			
Flow: 24 hours	0.60	%	ASTM D955
Transverse flow: 24 hours	0.70	%	ASTM D955
Vertical flow direction: 24 hours	0.66	%	ISO 294-4
Flow direction: 24 hours	0.64	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.11	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.19	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2760	MPa	ASTM D638
--	2800	MPa	ISO 527-2/1
Tensile Strength			
Yield	67.7	MPa	ASTM D638
Yield	64.2	MPa	ISO 527-2
Fracture	60.8	MPa	ASTM D638
Fracture	53.8	MPa	ISO 527-2
Tensile Elongation			
Yield	4.6	%	ASTM D638
Yield	4.3	%	ISO 527-2
Fracture	8.3	%	ASTM D638
Fracture	13	%	ISO 527-2
Flexural Modulus			
--	3230	MPa	ASTM D790

--	3100	MPa	ISO 178
Flexural Strength			
--	101	MPa	ASTM D790
--	109	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	97	J/m	ASTM D256
23°C [2]	9.2	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	2400	J/m	ASTM D4812
23°C [3]	140	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	25.1	J	ASTM D3763
--	34.2	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	133	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	121	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [4]	122	°C	ISO 75-2/Af
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+5 - 1.0E+9	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.500 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 - 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		

Recommended distributors for this material

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