LNP™ STAT-KON™ DEP23FXC compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DEP23FXC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 10% PTFE/Silicone. Added features include: Electrically Conductive. Wear Resistant, Superior Molding.
Also known as: LNP* STAT-KON* Compound DCL-4523 SM HP
Product reorder name: DEP23FXC

General Information			
UL YellowCard	E121562-101343405		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	PTFE + Silicone Lubricant (10%)		
Features	Electrically Conductive Good Moldability Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.29	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.20	%	ASTM D955
Across Flow : 24 hr	0.30	%	ASTM D955
Across Flow : 24 hr	0.27	%	ISO 294-4
Flow : 24 hr	0.16	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.12	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	10500	MPa	ASTM D638
--	10200	MPa	ISO 527-2/1
Tensile Strength			
Break	121	MPa	ASTM D638
Break	123	MPa	ISO 527-2
Tensile Elongation			
Break	2.0	%	ASTM D638
Break	1.8	%	ISO 527-2
Flexural Modulus			
--	9100	MPa	ASTM D790
--	10300	MPa	ISO 178
Flexural Strength			

--	187	MPa	ASTM D790
--	186	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C [2]	7.2	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	410	J/m	ASTM D4812
23°C [3]	27	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	16.1	J	ASTM D3763
--	3.19	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [4]	141	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [5]	137	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	3.7E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.3E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	10 to 1.0E+6	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, Testing by SABIC)	HB		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		
5.	80*10*4 mm		

Recommended distributors for this material

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