LNP™ STAT-KON™ DEP32 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DEP32 is a compound based on Polycarbonate containing 10% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.
Also known as: LNP* STAT-KON* Compound DCL-4532
Product reorder name: DEP32

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.28	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.12	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.18	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	7800	MPa	ASTM D638
--	7770	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	108	MPa	ASTM D638
Break	105	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	2.8	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	6970	MPa	ASTM D790
-- [5]	6950	MPa	ISO 178
Flexural Stress			
--	161	MPa	ISO 178
Yield, 50.0 mm Span [6]	166	MPa	ASTM D790

Break, 50.0 mm Span [7]	163	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	110	J/m	ASTM D256
23°C [8]	10	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	470	J/m	ASTM D4812
23°C [9]	32	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	24.0	J	ASTM D3763
--	7.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	148	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	147	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	145	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	144	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.7E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2	ohms	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.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	1.3 mm/min		
8.	80*10*4		

9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China