

LNP™ STAT-KON™ DE002 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP* STAT-KON* DE002 is a Polycarbonate base resin containing 10% Carbon Fiber. Added feature of this grade is: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DC-1002

Product reorder name: DE002

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption			
24 hr, 50% RH	0.080	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11100	MPa	ASTM D638
--	10300	MPa	ISO 527-2/1
Tensile Strength			
Break ²	97.0	MPa	ASTM D638
Break	97.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	7.5	%	ASTM D638
Break	7.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	7460	MPa	ASTM D790
-- ⁵	7440	MPa	ISO 178
Flexural Stress			
--	149	MPa	ISO 178
Break, 50.0 mm Span ⁶	158	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	85	J/m	ASTM D256
Unnotched Izod Impact (23°C)	690	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed, 3.20 mm	146	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁷	145	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁸	142	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.6E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.8E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0 to 5.0	ohms	ASTM D257
Volume Resistivity	4.0 to 6.0	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 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.	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.	80*10*4 mm		
8.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT