

LNP™ STAT-KON™ DE002ER compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP STAT-KON* DE002ER is a compound based on Polycarbonate resin containing 10% Carbon Fiber. Added features of this material include: Easy Molding, Mold Release, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound DC-1002 EM MR
Product reorder name: DE002ER

General Information			
UL YellowCard	E121562-101345262		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	Mold Release		
Features	Electrically Conductive		
	Good Mold Release		
	Good Moldability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.20 to 0.40	%	ASTM D955
Across Flow : 24 hr	0.29 to 0.43	%	ISO 294-4
Flow : 24 hr	0.060 to 0.32	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.17	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.66	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6960	MPa	ASTM D638
--	6800	MPa	ISO 527-2/1
Tensile Strength			
Break	101	MPa	ASTM D638
Break	103	MPa	ISO 527-2
Tensile Elongation			
Break	2.8	%	ASTM D638
Break	3.3	%	ISO 527-2
Flexural Modulus			
--	6140	MPa	ASTM D790
--	6960	MPa	ISO 178

Flexural Strength			
--	166	MPa	ASTM D790
--	171	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	96	J/m	ASTM D256
23°C ²	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	560	J/m	ASTM D4812
23°C ³	40	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	19.9	J	ASTM D3763
--	4.25	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	144	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	141	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	142	°C	ISO 75-2/Af
CLTE			
Flow : -40 to 40°C	2.6E-5	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	2.7E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	5.8E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	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.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	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

