

LNP™ STAT-KON™ DE002 compound

Polycarbonate
SABIC Innovative Plastics

Message:

LNP* Stat-Kon* DE002 is a Polycarbonate containing Carbon Fiber.
Also known as: LNP* STAT-KON* Compound DC-1002
Product reorder name: DE002

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 24 hours	0.20 - 0.40	%	ASTM D955
Transverse flow: 24 hours	0.40 - 0.60	%	ASTM D955
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			
Fracture ²	97.0	MPa	ASTM D638
Fracture	97.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	7.5	%	ASTM D638
Fracture	7.3	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	7460	MPa	ASTM D790
-- ⁵	7440	MPa	ISO 178
Flexural Stress			
--	149	MPa	ISO 178
Fracture, 50.0mm span ⁶	159	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, 3.20mm	146	°C	ASTM D648

0.45 MPa, unannealed, 64.0mm span ⁷	145	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	141	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁸	142	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM D696
Flow: -30 to 30°C	2.6E-5	cm/cm/°C	ASTM D696
Lateral: -30 to 30°C	5.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0 - 5.0	ohms	ASTM D257
Volume Resistivity	4.0 - 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 - 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.	Type 1, 5.0 mm/min		
3.	Type 1, 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		

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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



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