

LNP™ STAT-KON™ DE002ER compound

Polycarbonate
SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E207780-101284262		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Good formability		
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 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.20 - 0.40	%	ASTM D955
Vertical flow direction: 24 hours	0.29 - 0.43	%	ISO 294-4
Flow direction: 24 hours	0.060 - 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			
Fracture	101	MPa	ASTM D638
Fracture	103	MPa	ISO 527-2
Tensile Elongation			
Fracture	2.8	%	ASTM D638
Fracture	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, 3.20mm	144	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	141	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ⁴	142	°C	ISO 75-2/Af
Linear thermal expansion coefficient			
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
Lateral: -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 - 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 - 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.	80*10*4		
3.	80*10*4		
4.	80*10*4 mm		

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