

LNP™ STAT-KON™ DE0039 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DE0039 is a compound based on Polycarbonate resin containing 15% Carbon Fiber. Added features of this material include: Flame Retardant. Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DC-1003 FR

Product reorder name: DE0039

General Information			
UL YellowCard	E121562-101283874		
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Features	Electrically Conductive		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.30	g/cm ³	ASTM D792
--	1.29	g/cm ³	ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10 to 0.30	%	ASTM D955
Across Flow : 24 hr	0.30 to 0.50	%	ASTM D955
Across Flow : 24 hr	0.38	%	ISO 294-4
Flow : 24 hr	0.13	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9650	MPa	ASTM D638
--	9260	MPa	ISO 527-2/1
Tensile Strength			ASTM D638, ISO 527-2
Yield	119	MPa	
Break	119	MPa	
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2
Break	2.4	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	7580	MPa	ASTM D790
--	8600	MPa	ISO 178
Flexural Strength			

--	145	MPa	ASTM D790
--	181	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	64	J/m	ASTM D256
23°C ²	6.8	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C ³	32	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	18.3	J	ASTM D3763
--	4.10	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	150	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁴	150	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	148	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁵	146	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	4.5E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.8E-5	cm/cm/°C	
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		
5.	80*10*4 mm		

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