LNP™ STAT-KON™ DE0039 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON DE0039 is a compound based on Polycarbonate resin containing Flame Retardant, Carbon Fiber. Added features of this material include: Flame Retardant.
Also known as: LNP* STAT-KON* Compound DC-1003 FR
Product reorder name: DE0039

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Flame retardancy		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.30	g/cm³	ASTM D792
--	1.29	g/cm³	ISO 1183
Molding Shrinkage			
Flow: 24 hours	0.10 - 0.30	%	ASTM D955
Transverse flow: 24 hours	0.30 - 0.50	%	ASTM D955
Vertical flow direction: 24 hours	0.38	%	ISO 294-4
Flow direction: 24 hours	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	ASTM D638, ISO 527-2
Fracture	119	MPa	ASTM D638, ISO 527-2
Tensile Elongation			
Yield	2.4	%	ASTM D638
Yield	2.3	%	ISO 527-2
Fracture	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/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	550	J/m	ASTM D4812
23°C [3]	32	kJ/m²	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, 3.20mm	150	°C	ASTM D648
0.45 MPa, unannealed, 64.0mm span [4]	150	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	148	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span [5]	146	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	4.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	3.8E-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		
5.	80*10*4 mm		

Recommended distributors for this material

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