

LNP™ STAT-KON™ DEF42 compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP STAT-KON* DEF42 is a compound based on Polycarbonate resin containing 20% Glass Fiber, 10% Carbon Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound DCF-1006

Product reorder name: DEF42

General Information			
UL YellowCard	E121562-101345265		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm ³	ASTM D792
--	1.40	g/cm ³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.060 to 0.080	%	
Across Flow : 24 hr	0.40 to 0.60	%	
Water Absorption (24 hr, 50% RH)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11500	MPa	ASTM D638
--	11400	MPa	ISO 527-2/1
Tensile Strength			
Break ²	123	MPa	ASTM D638
Break	125	MPa	ISO 527-2/5
Tensile Elongation			
Yield ³	2.3	%	ASTM D638
Yield	2.4	%	ISO 527-2/5
Break ⁴	2.4	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁵	10200	MPa	ASTM D790
-- ⁶	10200	MPa	ISO 178
Flexural Stress			
--	186	MPa	ISO 178

Break, 50.0 mm Span ⁷	189	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	81	J/m	ASTM D256
23°C ⁸	8.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	680	J/m	ASTM D4812
23°C ⁹	41	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	14.8	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	145	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹⁰	146	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	142	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹¹	143	°C	ISO 75-2/Af
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	1.6E-5	cm/cm/°C	
Transverse : -40 to 40°C	5.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.40 mm)	V-0		UL 94
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.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		

7.	1.3 mm/min
8.	80*10*4
9.	80*10*4
10.	80*10*4 mm
11.	80*10*4 mm

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Recommended distributors for this material

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