

LNP™ STAT-KON™ Cypoloy_JK800 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP STAT-KON CYCOLOY_JK800 compound is an 8% carbon fiber reinforcedPC+ABS, electrostatic dissipative ECO conforming FR. Good hydrolytic stability.

General Information			
UL YellowCard	E121562-221061		
Filler / Reinforcement	Carbon Fiber,8.0% Filler by Weight		
Features	Bromine Free		
	Chlorine Free		
	ECO Compliant		
	Flame Retardant		
	Hydrolytically Stable		
Agency Ratings	EU Eco		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/2.16 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.10 to 0.20	%	
Across Flow : 3.20 mm	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7580	MPa	ASTM D638
--	7500	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	96.5	MPa	ASTM D638
Yield	95.0	MPa	ISO 527-2/5
Break ³	96.5	MPa	ASTM D638
Break	95.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.9	%	ASTM D638
Yield	1.9	%	ISO 527-2/5
Break ⁵	1.9	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	6210	MPa	ASTM D790

-- ⁷	6380	MPa	ISO 178
Flexural Stress			
--	145	MPa	ISO 178
Break, 50.0 mm Span ⁸	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ⁹	4.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	350	J/m	ASTM D4812
23°C ¹⁰	21	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	82.5	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	97.2	°C	
1.8 MPa, Unannealed, 3.20 mm	92.2	°C	
1.8 MPa, Unannealed, 6.40 mm	94.4	°C	
Vicat Softening Temperature			
--	111	°C	ASTM D1525 ¹¹
--	101	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	2.5E-5	cm/cm/°C	ASTM E831
Flow : 23 to 80°C	2.6E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.5E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	7.4E-5	cm/cm/°C	ISO 11359-2
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Static Decay ¹²	10	msec	FTMS 101B
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.991 mm	V-0		
1.50 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	76.7 to 82.2	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	

Suggested Shot Size	30 to 80	%
Rear Temperature	210 to 254	°C
Middle Temperature	216 to 260	°C
Front Temperature	227 to 274	°C
Nozzle Temperature	232 to 274	°C
Processing (Melt) Temp	232 to 274	°C
Mold Temperature	48.9 to 71.1	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

NOTE

1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	Type I, 5.0 mm/min
5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*4
10.	80*10*4
11.	Rate B (120°C/h), Loading 2 (50 N)
12.	5000V to <50V

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