

LNP™ STAT-KON™ Lexan_JK2500 compound

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

LNP STAT-KON LEXAN_JK2500 compound is a 20% carbon-fiber reinforced, nonhalogenated red phosphorous-free, high-flow FR PC+ABS for EMI/RFI shielding. SE of 21 dB at 1.5 mm.

General Information			
UL YellowCard	E121562-221059		
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Electromagnetic Shielding (EMI)		
	Halogen Free		
	High Flow		
	Low (to None) Phosphorus Content		
	Radio Frequency Shielding (RFI)		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.060 to 0.15	%	
Across Flow : 3.20 mm	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11000	MPa	ASTM D638
--	11100	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	63.8	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/5
Break ³	63.8	MPa	ASTM D638
Break	63.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	2.3	%	ASTM D638
Yield	2.2	%	ISO 527-2/5
Break ⁵	2.4	%	ASTM D638
Break	2.3	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	9240	MPa	ASTM D790
-- ⁷	10100	MPa	ISO 178

Flexural Stress			
--	110	MPa	ISO 178
Break, 50.0 mm Span ⁸	112	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ⁹	5.1	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	220	J/m	ASTM D4812
23°C ¹⁰	15	kJ/m ²	ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	14.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	98.3	°C	
1.8 MPa, Unannealed, 3.20 mm	93.9	°C	
1.8 MPa, Unannealed, 6.40 mm	96.1	°C	
Vicat Softening Temperature			
--	111	°C	ASTM D1525 ¹¹
--	100	°C	ISO 306/B120
CLTE			
Flow : -40 to 40°C	1.3E-5	cm/cm/°C	ASTM E831
Flow : 23 to 80°C	8.0E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.3E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	7.7E-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+4	ohms	ASTM D257
Volume Resistivity	2.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.991 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 87.8	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	24	hr	
Suggested Shot Size	40 to 60	%	
Rear Temperature	260 to 277	°C	
Middle Temperature	271 to 288	°C	
Front Temperature	271 to 299	°C	
Nozzle Temperature	271 to 299	°C	

Processing (Melt) Temp	271 to 310	°C
Mold Temperature	48.9 to 93.3	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	35 to 75	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)

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