

# LNP™ STAT-KON™ 9X08403C compound

Thermoplastic

SABIC Innovative Plastics

## Message:

LNP STAT-KON 9X08403C is a compound based on Liquid Crystal Polymer (LCP) resin containing Carbon Fiber. Added features of this material are: Clean Compounding System, High Temperature, Flame Retardant, Electrically Conductive, Good barrier against water and oxygen.

Also known as: LNP\* STAT-KON\* Compound 9X08403C

Product reorder name: 9X08403C

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	Electrically Conductive Flame Retardant High Heat Resistance Low (to None) Ion Content Moisture Barrier Oxygen Barrier		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			Internal Method
Flow	0.20	%	
Across Flow	0.52	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	14800	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Yield)	153	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Yield)	2.7	%	ASTM D638
Flexural Modulus <sup>4</sup> (50.0 mm Span)	14400	MPa	ASTM D790
Flexural Strength	53.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	88	J/m	ASTM D256
Unnotched Izod Impact (23°C)	830	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	280	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+9	ohms	ASTM D257
Volume Resistivity	1.0E+5 to 1.0E+9	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	Test Method
Drying Temperature	121 to 149	°C	

Drying Time	1.0 to 3.0	hr
Suggested Max Moisture	0.010	%
Rear Temperature	327 to 360	°C
Middle Temperature	328 to 360	°C
Front Temperature	329 to 360	°C
Nozzle Temperature	330 to 360	°C
Processing (Melt) Temp	331 to 360	°C
Mold Temperature	66.0 to 110	°C

**NOTE**

1.	5.0 mm/min
2.	Type I, 5.0 mm/min
3.	Type I, 5.0 mm/min
4.	1.3 mm/min

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**Recommended distributors for this material**

**Susheng Import & Export Trading Co.,Ltd.**

Tel: +86 21 5895 8519  
 Phone: +86 13424755533  
 Email: sales@su-jiao.com  
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China

