

LNP™ STAT-KON™ EX07311P compound

Polyether Imide

SABIC Innovative Plastics Asia Pacific

Message:

LNP STAT-KON* EX07311P is an easy flowing ESD-safe compound based on Polyetherimide resin. This compound is developed for good dimensional stability for use in ESD Tray for Backend Semicon and HDD tray applications.
Also known as: LNP* STAT-KON* Compound EX07311P (SER)
Product reorder name: EX07311P

General Information			
Features	ESD Protection		
	Good Dimensional Stability		
	Good Flow		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.56	g/cm³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (345°C/10.0 kg)	30.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal Method
Flow	0.29	%	
Across Flow	0.36	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	15000	MPa	ASTM D638
--	15200	MPa	ISO 527-2/1
Tensile Strength			
Break ²	175	MPa	ASTM D638
Break	174	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	2.1	%	ASTM D638
Break	1.9	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	11500	MPa	ASTM D790
-- ⁵	13200	MPa	ISO 178
Flexural Stress			
--	203	MPa	ISO 178
Break, 50.0 mm Span ⁶	200	MPa	ASTM D790
Coefficient of Friction (vs. Itself - Dynamic)	0.40		ASTM D3702 Modified
Flexural Strain at Break ⁷	1.7	%	ISO 178
Wear Factor - Washer	20.0	10^-10 in^5-min/ft-lb-hr	ASTM D3702 Modified

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	56	J/m	ASTM D256
23°C ⁸	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 3.20 mm	202	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁹	204	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	8.9E-6	cm/cm/°C	
Transverse : -40 to 40°C	4.4E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+6	ohms	ASTM D257, IEC 60093
Volume Resistivity	1.0E+5 to 1.0E+6	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	332 to 399	°C	
Middle Temperature	338 to 399	°C	
Front Temperature	343 to 399	°C	
Nozzle Temperature	343 to 399	°C	
Processing (Melt) Temp	349 to 399	°C	
Mold Temperature	135 to 163	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.025 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.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	2 mm/min		
8.	80*10*4		
9.	80*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT