

## SABIC Innovative Plastics LNP STAT-KON EX07311P PEI (Asia Pacific)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

### Material Notes:

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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-EX07311P-PEI-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-EX07311P-PEI-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ASTM D792
	1.56 g/cc	0.0564 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0029 cm/cm	0.0029 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0036 cm/cm	0.0036 in/in	SABIC Method
Melt Index of Compound	30 g/10 min	30 g/10 min	MVR [cm <sup>3</sup> /10 min]; ISO 1133
	@Load 10.0 kg, Temperature 345 Â°C	@Load 22.0 lb, Temperature 653 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	174 MPa	25200 psi	5 mm/min; ISO 527
	175 MPa	25400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	Flexural Strain, break, 2 mm/min; ISO 178
	1.9 %	1.9 %	5 mm/min; ISO 527
	2.1 %	2.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	15.0 GPa	2180 ksi	5 mm/min; ASTM D638
	15.2 GPa	2200 ksi	1 mm/min; ISO 527
Flexural Strength	200 MPa	29000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	203 MPa	29400 psi	2 mm/min; ISO 178
Flexural Modulus	11.5 GPa	1670 ksi	1.3 mm/min, 50 mm span; ASTM D790
	13.2 GPa	1910 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.560 J/cm	1.05 ft-lb/in	ASTM D256

Impact Notched (ISO) Mechanical Properties	6.00 kJ/m <sup>2</sup> Metric	2.86 ft-lb/in <sup>2</sup> English	80*10*4 ISO 180/1A Comments
Coefficient of Friction, Dynamic	0.40	0.40	ASTM D3702 Modified
K (wear) Factor	40.3 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	20.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.90 Åµm/m-Å°C	4.94 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	43.8 Åµm/m-Å°C	24.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	204 Å°C	399 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	202 Å°C @Thickness 3.20 mm	396 Å°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 - 1.00e+6 ohm- cm	1e+05 - 1.00e+6 ohm- cm	ASTM D257
Surface Resistance	1e+05 - 1.00e+6 ohm	1e+05 - 1.00e+6 ohm	ASTM D257
	1e+05 - 1.00e+6 ohm	1e+05 - 1.00e+6 ohm	ROA; IEC 60093

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