

## SABIC Innovative Plastics LNP STAT-KON MD000AP PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP\* STAT-KON\* MD000AP is a compound based on Polypropylene containing Carbon Powder. Added features of this grade include:  
Electrically Conductive, Exceptional Processing.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000AP-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000AP-PP.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ASTM D792
Density	1.012 g/cc	0.03656 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 <sup>o</sup> C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.014 cm/cm	0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 cm/cm	0.016 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	22.0 MPa	3190 psi	5 mm/min; ISO 527
	24.0 MPa	3480 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	2.6 %	2.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.78 GPa	258 ksi	1 mm/min; ISO 527
	1.98 GPa	287 ksi	5 mm/min; ASTM D638
Flexural Strength	39.0 MPa	5660 psi	1.3 mm/min, 50 mm span; ASTM D790
	39.0 MPa	5660 psi	ISO 178
Flexural Modulus	1.57 GPa	228 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.66 GPa	241 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	6.76 J/cm Metric	12.7 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	3.00 kJ/m <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m <sup>2</sup>	18.1 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	11.0 J	8.11 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	89.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	49.4 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	50.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.0 Â°C	190 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	109 Â°C @Thickness 3.20 mm	228 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	58.0 Â°C	136 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	60.0 Â°C @Thickness 3.20 mm	140 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	ASTM D257

## Contact Songhan Plastic Technology Co.,Ltd.

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