

## SABIC Innovative Plastics LNP STAT-KON MD000IS PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

LNP STAT-KON\* MD000IS is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include:  
Electrically Conductive, High Impact.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000IS-PP.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000IS-PP.php)

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in <sup>3</sup>	ISO 1183
	0.980 g/cc	0.0354 lb/in <sup>3</sup>	ASTM D792
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0158 - 0.018 cm/cm	0.0158 - 0.018 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.016 - 0.018 cm/cm	0.016 - 0.018 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	17.0 MPa	2470 psi	ASTM D638
	17.0 MPa	2470 psi	ISO 527
Tensile Strength, Yield	18.0 MPa	2610 psi	ISO 527
	21.0 MPa	3050 psi	ASTM D638
Elongation at Break	133.8 %	133.8 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Tensile Modulus	0.480 GPa	69.6 ksi	50 mm/min; ASTM D638
	1.10 GPa	160 ksi	1 mm/min; ISO 527
Flexural Strength	27.0 MPa	3920 psi	ASTM D790

Mechanical Properties	27.0 MPa Metric	3920 psi English	ISO 178 Comments
Flexural Modulus	1.13 GPa	164 ksi	ASTM D790
	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched	8.33 J/cm	15.6 ft-lb/in	ASTM D256
Izod Impact, Unnotched	15.53 J/cm	29.09 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	65.0 kJ/m <sup>2</sup>	30.9 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	112 kJ/m <sup>2</sup>	53.3 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	31.0 J	22.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	101 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	56.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	119 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	66.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	119 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	66.1 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	81.0 $\text{Å}^\circ\text{C}$	178 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	56.0 $\text{Å}^\circ\text{C}$	133 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	52.0 $\text{Å}^\circ\text{C}$	126 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257
Static Decay	0.010 sec	0.010 sec	5000V to <50V; FTMS101B

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