

SABIC Innovative Plastics LNP STAT-KON MD000A PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* MD000A is a compound based on Polypropylene resin containing Carbon. Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000A-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.00 g/cc	1.00 g/cc	ASTM D792
Density	0.998 g/cc	0.0361 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	>= 0.020 cm/cm @Time 86400 sec	>= 0.020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Time 86400 sec	0.010 - 0.030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	5 mm/min; ISO 527
	26.0 MPa	3770 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	3.1 %	3.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.77 GPa	257 ksi	1 mm/min; ISO 527
	1.87 GPa	271 ksi	5 mm/min; ASTM D638
Flexural Strength	40.0 MPa	5800 psi	ISO 178
Flexural Modulus	1.65 GPa	239 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.66 GPa	241 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.29 J/cm	15.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	48.0 kJ/m ²	22.8 ft-lb/in ²	80*10*4; ISO 180/1U
	26.0 J	19.2 ft-lb	

Mechanical Properties	Metric @ Temperature 23.0 Â°C	English @ Temperature 73.4 Â°F	Comments ASTM D2753
Impact Test	8.00 J	5.90 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	87.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	48.3 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)	90.0 Â°C	194 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	108 Â°C @Thickness 3.20 mm	226 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 Â°C	131 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	56.0 Â°C @Thickness 3.20 mm	133 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 ohm - 1e+05	10 ohm - 1e+05	ASTM D257

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