SABIC Innovative Plastics LNP STAT-KON MD000 PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP STAT-KON* MD000 is a compound based on Polypropylene resin containing Carbon Powder. Added features of this material include:

Electrically Conductive.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MD000-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/inÂ³	ASTM D792
	0.950 g/cc	0.0343 lb/inÂ³	ISO 1183
Moisture Absorption	0.0300 %	0.0300 %	50% RH, 24 hrs; ASTM D570
	0.0300 %	0.0300 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.013 - 0.016 cm/cm @Time 86400 sec	0.013 - 0.016 in/in @Time 24.0 hour	ASTM D955
	0.0152 cm/cm @Time 86400 sec	0.0152 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0133 cm/cm @Time 86400 sec	0.0133 in/in @Time 24.0 hour	ISO 294
	0.013 - 0.016 cm/cm @Time 86400 sec	0.013 - 0.016 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	ISO 527
	16.0 MPa	2320 psi	ASTM D638
Tensile Strength, Yield	21.0 MPa	3050 psi	ASTM D638
	21.0 MPa	3050 psi	ISO 527
Elongation at Break	47.6 %	47.6 %	ASTM D638
	52 %	52 %	ISO 527
Elongation at Yield	6.2 %	6.2 %	ISO 527
	8.4 %	8.4 %	ASTM D638

Mechanical Properties	Metric	English	Comments
Tensile Modulus	1.22 GPa	177 ksi	1 mm/min; ISO 527
	1.25 GPa	181 ksi	50 mm/min; ASTM D638
Flexural Strength	24.0 MPa	3480 psi	ISO 178
	29.0 MPa	4210 psi	ASTM D790
Flexural Modulus	1.16 GPa	168 ksi	ISO 178
	1.17 GPa	170 ksi	ASTM D790
Izod Impact, Notched	8.17 J/cm	15.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	60.0 kJ/mÂ²	28.6 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	33.0 J	24.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	32.0 J	23.6 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	102 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	56.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	102 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	56.7 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	105 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	58.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	105 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	58.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	53.0 Â°C	127 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	51.0 Â°C @Thickness 3.20 mm	124 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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