

SABIC Innovative Plastics LNP STAT-KON MD000ISC PP (Asia Pacific)

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP STAT-KON* MD000ISC 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-MD000ISC-PP-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/inÂ³	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	
	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
	27.0 MPa	3920 psi	ISO 178

Flexural Modulus Mechanical Properties	1.13 GPa Metric	164 ksi English	ASTM D790 Comments
	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 ²	30.9 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	112 kJ/m ²	53.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	81.0 Â°C @Thickness 3.20 mm	178 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	56.0 Â°C	133 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	52.0 Â°C @Thickness 3.20 mm	126 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257

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