

SABIC Innovative Plastics LNP STAT-KON ME003S PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* ME003S is a compound based on Polypropylene resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive, Heat Stabilized.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-ME003S-PP.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in ³	ASTM D792
	0.990 g/cc	0.0358 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0052 cm/cm	0.0052 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0060 cm/cm	0.0060 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.0 MPa	5660 psi	ASTM D638
	44.0 MPa	6380 psi	ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
	47.0 MPa	6820 psi	ISO 527
Elongation at Break	1.0 %	1.0 %	ISO 527
	1.3 %	1.3 %	ASTM D638
Elongation at Yield	0.70 %	0.70 %	ASTM D638
	0.70 %	0.70 %	ISO 527
Tensile Modulus	8.59 GPa	1250 ksi	1 mm/min; ISO 527
	8.96 GPa	1300 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	62.0 MPa Metric	8990 psi English	ISO 178 Comments
	65.0 MPa	9430 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched	0.160 J/cm	0.300 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.28 J/cm	2.40 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	1.00 kJ/m ²	0.476 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	14.0 J	10.3 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature -40.0 - 40.0 °C	38.9 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
	70.2 µm/m-°C @Temperature -40.0 - 40.0 °C	39.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
CTE, linear, Transverse to Flow	28.8 µm/m-°C @Temperature -40.0 - 40.0 °C	16.0 µin/in-°F @Temperature -40.0 - 104 °F	ASTM E 831
	29.0 µm/m-°C @Temperature -40.0 - 40.0 °C	16.1 µin/in-°F @Temperature -40.0 - 104 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	153 °C @Thickness 3.20 mm	307 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	131 °C	268 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 °C @Thickness 3.20 mm	271 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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