

SABIC Innovative Plastics LNP STAT-KON MFD03 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* MFD03 is a compound based on Polypropylene resin containing 15% Glass Fiber. 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-MFD03-PP.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.010 cm/cm	0.010 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0092 cm/cm	0.0092 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

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	34.0 MPa	4930 psi	ASTM D638
	34.0 MPa	4930 psi	ISO 527
Elongation at Break	5.7 %	5.7 %	ISO 527
	6.9 %	6.9 %	ASTM D638
Elongation at Yield	2.6 %	2.6 %	ISO 527
	2.7 %	2.7 %	ASTM D638
Tensile Modulus	3.31 GPa	480 ksi	1 mm/min; ISO 527
	3.44 GPa	499 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	51.0 MPa Metric	7400 psi English	ISO 178 Comments
Flexural Modulus	2.75 GPa	399 ksi	ASTM D790
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.38 J/cm	2.59 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	104 µm/m-°C	57.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	105 µm/m-°C	58.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	46.8 µm/m-°C	26.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	47.0 µm/m-°C	26.1 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 °C	297 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 °C	223 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1000 - 1.00e+6 ohm	1000 - 1.00e+6 ohm	ASTM D257

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