

SABIC Innovative Plastics LNP STAT-KON MFD02 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* MFD02 is a compound based on Polypropylene resin containing 10% 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-MFD02-PP.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm	0.011 - 0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.012 cm/cm	0.012 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638
	23.0 MPa	3340 psi	ISO 527
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
	28.0 MPa	4060 psi	ISO 527
Elongation at Break	4.1 %	4.1 %	ISO 527
	6.1 %	6.1 %	ASTM D638
Elongation at Yield	2.9 %	2.9 %	ISO 527
	3.2 %	3.2 %	ASTM D638
Tensile Modulus	2.43 GPa	352 ksi	1 mm/min; ISO 527
	2.75 GPa	399 ksi	50 mm/min; ASTM D638

Flexural Strength Mechanical Properties	43.0 MPa Metric	6240 psi English	ISO 178 Comments
Flexural Modulus	2.06 GPa	299 ksi	ASTM D790
	2.20 GPa	319 ksi	ISO 178
Izod Impact, Notched	1.33 J/cm	2.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.79 J/cm	7.10 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/m ²	12.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J	11.8 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	11.0 J	8.11 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	103 µm/m-°C	57.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	103 µm/m-°C	57.2 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	64.0 µm/m-°C	35.6 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	64.8 µm/m-°C	36.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	261 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	133 °C	271 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 °C	185 °F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

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