

SABIC Innovative Plastics LNP STAT-LOY M3000 PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP STAT-LOY* M3000 is a compound based on unfilled Polypropylene resin. Added feature of this material is: Antistat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-LOY-M3000-PP.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
	0.950 g/cc	0.0343 lb/in ³	ISO 1183
Moisture Absorption	0.850 %	0.850 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0135 cm/cm	0.0135 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.014 cm/cm	0.014 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0133 cm/cm	0.0133 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	7.00 MPa	1020 psi	ISO 527
	18.0 MPa	2610 psi	ASTM D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
	28.0 MPa	4060 psi	ISO 527
Elongation at Break	47 %	47 %	ASTM D638
	98.2 %	98.2 %	ISO 527
Elongation at Yield	8.0 %	8.0 %	ISO 527
	9.6 %	9.6 %	ASTM D638
Tensile Modulus	1.35 GPa	196 ksi	1 mm/min; ISO 527
	1.39 GPa	202 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
	40.0 MPa	5800 psi	ASTM D790
Flexural Modulus	1.36 GPa	197 ksi	ISO 178
	1.44 GPa	209 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 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	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	110 Âµm/m-Â°C	61.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	128 Âµm/m-Â°C	71.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	128 Âµm/m-Â°C	71.1 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	100 Â°C	212 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	59.0 Â°C	138 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	56.0 Â°C	133 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+9 - 1.00e+11 ohm	1.00e+9 - 1.00e+11 ohm	ASTM D257

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