

SABIC Innovative Plastics LNP STAT-KON MX10301C PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* MX10301C is a compound based on Polypropylene containing Proprietary Filler(s). Added features of this grade include:
Electrically Conductive, Clean Compounding System.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MX10301C-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	ASTM D792
Density	0.980 g/cc	0.0354 lb/in ³	ASTM D792
Moisture Absorption	0.0100 %	0.0100 %	23Â°C / 50% RH; ISO 62
	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	SABIC Method
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	Type I, 5 mm/min; ASTM D638
	22.0 MPa	3190 psi	5 mm/min; ISO 527
Tensile Strength, Yield	31.0 MPa	4500 psi	5 mm/min; ISO 527
	32.0 MPa	4640 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	18 %	18 %	5 mm/min; ISO 527
	25.5 %	25.5 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	6.6 %	6.6 %	5 mm/min; ISO 527
	7.5 %	7.5 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	1.57 GPa	228 ksi	1 mm/min; ISO 527
	1.76 GPa	255 ksi	5 mm/min; ASTM D638
Flexural Strength	35.0 MPa	5080 psi	ISO 178
Flexural Modulus	1.49 GPa	216 ksi	1.3 mm/min, 50 mm span; ASTM D790
	1.51 GPa	219 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	1.30 J/cm Metric	2.44 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	14.7 J/cm	27.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/mÂ²	4.28 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	141 kJ/mÂ²	67.1 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	37.0 J @Temperature 23.0 Â°C	27.3 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	32.0 J	23.6 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	92.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	51.1 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	95.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	52.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	89.0 Â°C	192 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	95.0 Â°C @Thickness 3.20 mm	203 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	52.0 Â°C	126 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	53.0 Â°C @Thickness 3.20 mm	127 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 ohm	3.0 ohm	ASTM D257

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