

SABIC Innovative Plastics LNP STAT-KON MX12407C PP

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

LNP* STAT-KON* MX12407C is a compound based on Polypropylene resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Clean Compounding System.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-MX12407C-PP.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.980 g/cc	0.980 g/cc	ASTM D792
Density	0.974 g/cc	0.0352 lb/in ³	ASTM D792
Moisture Absorption	0.0200 %	0.0200 %	50% RH, 24 hrs; ASTM D570
	0.0200 %	0.0200 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.017 cm/cm	0.017 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	19.0 MPa	2760 psi	Type I, 5 mm/min; ASTM D638
	20.0 MPa	2900 psi	5 mm/min; ISO 527
Tensile Strength, Yield	21.0 MPa	3050 psi	5 mm/min; ISO 527
	22.0 MPa	3190 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	297 %	297 %	Type I, 5 mm/min; ASTM D638
	666 %	666 %	5 mm/min; ISO 527
Elongation at Yield	8.6 %	8.6 %	5 mm/min; ISO 527
	10 %	10 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	0.980 GPa	142 ksi	1 mm/min; ISO 527
	1.42 GPa	206 ksi	5 mm/min; ASTM D638
Flexural Strength	23.0 MPa	3340 psi	ISO 178
Flexural Yield Strength	24.0 MPa	3480 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	0.990 GPa	143 ksi	2 mm/min; ISO 178
	1.02 GPa	148 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	8.73 J/cm	16.4 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	57.0 kJ/m ²	27.1 ft-lb/in ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	31.0 J @Temperature 23.0 Â°C	22.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	35.0 J	25.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	117 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	65.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	126 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	70.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	77.0 Â°C	171 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	90.0 Â°C @Thickness 3.20 mm	194 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	49.0 Â°C	120 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	49.0 Â°C @Thickness 3.20 mm	120 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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

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