

SABIC Innovative Plastics LNP STAT-KON DX93500 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DX93500 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this material is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX93500-PC.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.230 %	0.230 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0073 cm/cm	0.0073 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0067 cm/cm	0.0067 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	43.0 MPa	6240 psi	ISO 527
	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM D638
	51.0 MPa	7400 psi	ISO 527
Elongation at Break	11.4 %	11.4 %	ASTM D638
	11.7 %	11.7 %	ISO 527
Elongation at Yield	4.7 %	4.7 %	ISO 527
	4.8 %	4.8 %	ASTM D638
Tensile Modulus	2.20 GPa	319 ksi	50 mm/min; ASTM D638

Mechanical Properties	2-30 GPa Metric	334 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	84.0 MPa	12200 psi	ISO 178
	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched	1.28 J/cm	2.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	19.22 J/cm	36.01 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	131 kJ/m ²	62.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	27.0 J	19.9 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	31.0 J	22.9 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	134 Å°C @Thickness 3.20 mm	273 Å°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 Å°C	255 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	124 Å°C @Thickness 3.20 mm	255 Å°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D257

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