

SABIC Innovative Plastics LNP STAT-KON DX11411 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX11411 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this grade is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX11411-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Density	1.392 g/cc	0.05029 lb/in ³	ASTM D792
Moisture Absorption	0.200 %	0.200 %	23 ^o C / 50% RH; ISO 62
	0.260 %	0.260 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	85.0 MPa	12300 psi	5 mm/min; ISO 527
	87.0 MPa	12600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.5 %	1.5 %	Type I, 5 mm/min; ASTM D638
	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	6.95 GPa	1010 ksi	1 mm/min; ISO 527
	7.27 GPa	1050 ksi	5 mm/min; ASTM D638
Flexural Strength	114 MPa	16500 psi	ISO 178
	120 MPa	17400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.42 GPa	931 ksi	2 mm/min; ISO 178
	6.78 GPa	983 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256

Izod Impact, Unnotched Mechanical Properties	2.84 J/cm Metric	5.32 ft-lb/in English	ASTM D4812 Comments
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	5.00 J @Temperature 23.0 Â°C	3.69 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	17.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	47.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.1 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	152 Â°C	306 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	153 Â°C @Thickness 3.20 mm	307 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

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