

SABIC Innovative Plastics LNP STAT-KON DX96717C PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DX96717C is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added features of this material include: Electrically Conductive, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX96717C-PC.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.170 %	0.170 %	50% RH, 24 hrs; ASTM D570
	0.250 %	0.250 %	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	
	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0075 cm/cm	0.0075 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	51.0 MPa	7400 psi	ISO 527
	54.0 MPa	7830 psi	ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	ISO 527
	63.0 MPa	9140 psi	ASTM D638
Elongation at Break	9.9 %	9.9 %	ASTM D638
	11.1 %	11.1 %	ISO 527
Elongation at Yield	4.7 %	4.7 %	ISO 527
	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	50 mm/min; ASTM D638

Mechanical Properties	2.70 GPa Metric	392 ksi English	1 mm/min: ISO 527 Comments
Flexural Strength	98.0 MPa	14200 psi	ASTM D790
	98.0 MPa	14200 psi	ISO 178
Flexural Modulus	2.80 GPa	406 ksi	ISO 178
	2.89 GPa	419 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	18.31 J/cm	34.30 ft-lb/in	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)	123 kJ/m ²	58.5 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	131 Â°C @Thickness 3.20 mm	268 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.80 mm	V-0 @Thickness 0.0709 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+8 ohm	10000 - 1.00e+8 ohm	ASTM D257

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