

SABIC Innovative Plastics LNP Stat-kon DX96690 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DX96690 is a compound based on Polycarbonate resin containing PTFE. Added features of this material include:
Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-DX96690-PC.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.19 %	0.19 %	23°C / 50% RH; ISO 62
	0.13 %	0.13 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0020 cm/cm	0.0020 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0038 cm/cm	0.0038 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	102 MPa	14800 psi	ISO 527
	112 MPa	16200 psi	ASTM D 638
Elongation at Break	1.4 %	1.4 %	ISO 527
	1.8 %	1.8 %	ASTM D 638
Tensile Modulus	8.48 GPa	1230 ksi	1 mm/min; ISO 527
	9.30 GPa	1350 ksi	50 mm/min; ASTM D 638
Flexural Strength	163 MPa	23600 psi	ISO 178
	176 MPa	25500 psi	ASTM D 790
Flexural Modulus	8.16 GPa	1180 ksi	ISO 178

Mechanical Properties	Metric 0.58 GPa	English 12.40 ksi	Comments ASTM D 790
Izod Impact, Notched	0.580 J/cm @Temperature 23.0 Â°C	1.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	3.89 J/cm @Temperature 23.0 Â°C	7.29 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ² @Temperature 23.0 Â°C	2.38 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	26.0 kJ/mÂ² @Temperature 23.0 Â°C	12.4 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	7.00 J @Temperature 23.0 Â°C	5.16 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	27.3 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	27.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	15.2 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	35.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.8 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	36.6 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	20.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

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