

SABIC Innovative Plastics LNP STAT-KON DX04490 PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DX04490 is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX04490-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0042 cm/cm	0.0042 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	ASTM D638
	54.0 MPa	7830 psi	ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638
	61.0 MPa	8850 psi	ISO 527
Elongation at Break	8.5 %	8.5 %	ISO 527
	16.3 %	16.3 %	ASTM D638
Elongation at Yield	4.2 %	4.2 %	ASTM D638
	4.5 %	4.5 %	ISO 527
Tensile Modulus	2.71 GPa	393 ksi	1 mm/min; ISO 527

Mechanical Properties	2.98 GPa Metric	432 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	75.0 MPa	10900 psi	ISO 178
	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	2.51 GPa	364 ksi	ISO 178
	2.71 GPa	393 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256
Izod Impact, Unnotched	23.42 J/cm	43.88 ft-lb/in	ASTM D4812
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)	167 kJ/m ²	79.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	4.00 J	2.95 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	9.00 J	6.64 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	63.0 µm/m-°C	35.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	63.5 µm/m-°C	35.3 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	59.4 µm/m-°C	33.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	60.8 µm/m-°C	33.8 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	133 °C	271 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	132 °C	270 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.0 ohm-cm	3.0 ohm-cm	ASTM D257
Surface Resistance	2.0 ohm	2.0 ohm	ASTM D257

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