

SABIC Innovative Plastics LNP STAT-KON DX98477 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX98477 is a compound based on Polycarbonate 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-DX98477-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.240 %	0.240 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 MPa	6670 psi	5 mm/min; ISO 527
	49.0 MPa	7110 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	58.0 MPa	8410 psi	5 mm/min; ISO 527
	59.0 MPa	8560 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	21.2 %	21.2 %	Type I, 5 mm/min; ASTM D638
	21.4 %	21.4 %	5 mm/min; ISO 527
Elongation at Yield	4.7 %	4.7 %	5 mm/min; ISO 527
	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.70 GPa	392 ksi	1 mm/min; ISO 527
	2.79 GPa	405 ksi	50 mm/min; ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ISO 178
Flexural Modulus	2.72 GPa	395 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256
Izod Impact, Unnotched	23.3 J/cm	43.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	234 kJ/m ²	111 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	45.0 J @Temperature 23.0 Â°C	33.2 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	34.0 J	25.1 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	66.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	142 Â°C	288 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	142 Â°C @Thickness 3.20 mm	288 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 Â°C	270 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	133 Â°C @Thickness 3.20 mm	271 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 6.0 ohm	2.0 - 6.0 ohm	ASTM D257

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