

SABIC Innovative Plastics LNP STAT-KON DX91077 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX91077 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added features of this grade include: Electrically Conductive, Impact Modified.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DX91077-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Moisture Absorption	0.140 %	0.140 %	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	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Type I, 5 mm/min; ASTM D638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	5 mm/min; ISO 527
	56.0 MPa	8120 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	12.4 %	12.4 %	5 mm/min; ISO 527
	15 %	15 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.8 %	4.8 %	Type I, 5 mm/min; ASTM D638
	4.8 %	4.8 %	5 mm/min; ISO 527
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527
	2.71 GPa	393 ksi	50 mm/min; ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ISO 178
Flexural Yield Strength	94.0 MPa	13600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	2.58 GPa	370 ksi	2 mm/min; ISO 178
	2.76 GPa	400 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.740 J/cm	1.39 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.4 J/cm	32.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	125 kJ/m ²	59.5 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	31.0 J @Temperature 23.0 Â°C	22.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	28.0 J	20.7 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.8 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	36.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	67.1 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 Â°C @Thickness 3.20 mm	282 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 Â°C	261 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	130 Â°C @Thickness 3.20 mm	266 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	4.0 - 6.0 ohm	4.0 - 6.0 ohm	ASTM D257

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