

SABIC Innovative Plastics LNP STAT-KON 9X02785 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* 9X02785 is a compound based on Polycarbonate resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-9X02785-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.140 %	0.140 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.0 MPa	7540 psi	Type I, 5 mm/min; ASTM D638
	52.0 MPa	7540 psi	5 mm/min; ISO 527
Tensile Strength, Yield	56.0 MPa	8120 psi	5 mm/min; ISO 527
	63.0 MPa	9140 psi	Type I, 5 mm/min; ASTM D638
	64.0 MPa	9280 psi	ASTM D638
Elongation at Break	3.1 %	3.1 %	5 mm/min; ISO 527
	4.0 %	4.0 %	ASTM D638
	7.8 %	7.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.9 %	2.9 %	5 mm/min; ISO 527
	4.3 %	4.3 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	2.76 GPa	400 ksi	1 mm/min; ISO 527
	2.84 GPa	412 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric (Pa)	English (psi)	Comments
	96.0 MPa	13900 psi	ISO 178
	103 MPa	14900 psi	ASTM D790
Flexural Yield Strength	107 MPa	15500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.79 GPa	405 ksi	2 mm/min; ISO 178
	2.89 GPa	419 ksi	ASTM D790
	2.92 GPa	424 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256
Izod Impact, Unnotched	21.6 J/cm	40.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	149 kJ/m ²	70.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	35.0 J @Temperature 23.0 Â°C	25.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	35.0 J	25.8 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	68.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	37.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	114 Â°C	237 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	117 Â°C @Thickness 3.20 mm	243 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	103 Â°C	217 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	106 Â°C @Thickness 3.20 mm	223 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 1.00e+7 ohm-cm	100 - 1.00e+7 ohm-cm	ASTM D257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China