

SABIC Innovative Plastics LNP Stat-kon DX07323 PC+ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DX07323 is a compound based on polycarbonate resin containing conductive fillers. Added features of this compound includes: ESD safe and excellent low-temperature impact performance, intended for compliance to ATEX. 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-DX07323-PCABS.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D 792
	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	SABIC Method
	0.0040 - 0.0070 cm/cm @Time 86400 sec	0.0040 - 0.0070 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	SABIC Method
	0.0040 - 0.0070 cm/cm @Time 86400 sec	0.0040 - 0.0070 in/in @Time 24.0 hour	ASTM D 955
Melt Flow	50 g/10 min @Load 10.0 kg, Temperature 300 Â°C	50 g/10 min @Load 22.0 lb, Temperature 572 Â°F	[cm ³ /10 min] Melt Volume Rate; ISO 1133
	55 g/10 min @Load 10.0 kg, Temperature 300 Â°C	55 g/10 min @Load 22.0 lb, Temperature 572 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	5 mm/min; ISO 527
	55.0 MPa	7980 psi	ASTM D 638
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D 638
	55.0 MPa	7980 psi	5 mm/min; ISO 527
Elongation at Break	9.0 %	9.0 %	ASTM D 638
	9.0 %	9.0 %	5 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	ASTM D 638

Mechanical Properties	Metric	English	Comments ISO 527
Tensile Modulus	2.40 GPa	348 ksi	5 mm/min; ASTM D 638
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Strength	84.0 MPa	12200 psi	ASTM D 790
	88.0 MPa	12800 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ASTM D 790
	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D 256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.80 J/cm	3.37 ft-lb/in	ASTM D 256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched	15.0 J/cm	28.1 ft-lb/in	ASTM D 4812
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	16.0 J/cm	30.0 ft-lb/in	ASTM D 4812
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	16.0 kJ/m ²	7.61 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Izod Impact, Unnotched (ISO)	100 kJ/m ²	47.6 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	130 kJ/m ²	61.9 ft-lb/in ²	80*10*4; ISO 180/1U
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	ASTM E 831
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	40.0 Å°C Metric	104 Å°F English	Comments
	50.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	27.8 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	27.8 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ASTM E 831
	50.0 Åµm/m-Å°C @Temperature -40.0 - 40.0 Å°C	27.8 Åµin/in-Å°F @Temperature -40.0 - 104 Å°F	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	124 Å°C	255 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	125 Å°C @Thickness 3.20 mm	257 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Flammability, UL94	V-1 @Thickness 2.50 mm	V-1 @Thickness 0.0984 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+6 - 1.00e+10 ohm-cm	1.00e+6 - 1.00e+10 ohm-cm	ASTM D 257
Surface Resistance	1.00e+6 - 1.00e+10 ohm	1.00e+6 - 1.00e+10 ohm	ASTM D 257

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