

SABIC Innovative Plastics LNP Stat-kon DS0029 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DS0029 is a compound based on Polycarbonate resin containing Stainless Steel. Added features of this material include:
Electrically Conductive. 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-DS0029-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.21 %	0.21 %	23°C / 50% RH; ISO 62
	0.13 %	0.13 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0065 cm/cm	0.0065 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0073 cm/cm	0.0073 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D 638
	48.0 MPa	6960 psi	5 mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ISO 527
	53.0 MPa	7690 psi	Type I, 5 mm/min; ASTM D 638
Elongation at Break	7.8 %	7.8 %	5 mm/min; ISO 527
	13.2 %	13.2 %	Type I, 5 mm/min; ASTM D 638
Elongation at Yield	5.0 %	5.0 %	5 mm/min; ISO 527
	5.1 %	5.1 %	Type I, 5 mm/min; ASTM D 638
Tensile Modulus	2.32 GPa	336 ksi	1 mm/min; ISO 527
	2.55 GPa	370 ksi	50 mm/min; ASTM D 638
Flexural Strength	76.0 MPa	11000 psi	ISO 178
Flexural Modulus	2.20 GPa	319 ksi	1.3 mm/min, 50 mm span; ASTM D 790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.930 J/cm @Temperature 23.0 Â°C	1.74 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	16.0 J/cm @Temperature 23.0 Â°C	30.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	88.0 kJ/mÂ² @Temperature 23.0 Â°C	41.9 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	15.0 J @Temperature 23.0 Â°C	11.1 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	133 Â°C	271 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	133 Â°C @Thickness 3.20 mm	271 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	122 Â°C	252 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	121 Â°C @Thickness 3.20 mm	250 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 6.0 ohm	3.0 - 6.0 ohm	ASTM D 257

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