

SABIC Innovative Plastics LNP STAT-KON DEL22P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL22P is a compound based on Polycarbonate resin containing 10% Carbon Fiber, 10% PTFE. Added features of this material include: Electrically Conductive. Exceptional Processing, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL22P-PC.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	SABIC Method
	0.0010 - 0.0030 cm/cm @Thickness 0.750 - 2.30 mm	0.0010 - 0.0030 in/in @Thickness 0.0295 - 0.0906 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	SABIC Method
	0.0040 - 0.0060 cm/cm @Thickness 0.750 - 2.30 mm	0.0040 - 0.0060 in/in @Thickness 0.0295 - 0.0906 in	SABIC Method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	ASTM D638
	101 MPa	14600 psi	ISO 527
Elongation at Break	2.0 %	2.0 %	ASTM D638
	2.0 %	2.0 %	ISO 527
Tensile Modulus	7.90 GPa	1150 ksi	50 mm/min; ASTM D638
	8.17 GPa	1180 ksi	1 mm/min; ISO 527
Flexural Strength	152 MPa	22000 psi	ASTM D790
Flexural Modulus	0.150 GPa	21.8 ksi	ISO 178
	5.69 GPa	825 ksi	ASTM D790

Izod Impact, Notched Mechanical Properties	0.740 J/cm Metric	1.39 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	2.83 J/cm	5.30 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/m ²	16.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J	9.59 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	102 J	75.2 ft-lb	Multiaxial Impact; ISO 6603
Coefficient of Friction, Dynamic	0.55	0.55	ASTM D3702 Modified
Coefficient of Friction, Static	0.52	0.52	ASTM D3702 Modified
K (wear) Factor	30.2 x 10 ⁻⁸ mm ³ /N-M	15.0 x 10 ⁻¹⁰ in ³ - min/ft-lb-hr	Washer; ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 Åµm/m-Å°C	7.78 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	15.0 Åµm/m-Å°C	8.33 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	76.0 Åµm/m-Å°C	42.2 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	76.0 Åµm/m-Å°C	42.2 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	143 Å°C	289 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	134 Å°C	273 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm	100 ohm-cm	IEC 60093
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ROA; IEC 60093

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