

SABIC Innovative Plastics LNP STAT-KON DD0009E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DD0009E is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0009E-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Density	1.32 g/cc	0.0477 lb/in ³	ISO 1183
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.240 %	0.240 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	61.0 MPa	8850 psi	Type I, 5 mm/min; ASTM D638
	63.0 MPa	9140 psi	5 mm/min; ISO 527
Elongation at Break	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
	8.6 %	8.6 %	5 mm/min; ISO 527
Elongation at Yield	3.8 %	3.8 %	Type I, 5 mm/min; ASTM D638
	4.3 %	4.3 %	5 mm/min; ISO 527
Tensile Modulus	3.05 GPa	442 ksi	50 mm/min; ASTM D638
	3.05 GPa	442 ksi	1 mm/min; ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Yield Strength	107 MPa	15500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.89 GPa	419 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
	3.05 GPa	442 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.520 J/cm	0.974 ft-lb/in	ASTM D256
Izod Impact, Unnotched	20.39 J/cm	38.20 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	99.0 kJ/m ²	47.1 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	5.00 J	3.69 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C	262 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	2.0 - 4.0 ohm	2.0 - 4.0 ohm	ASTM D257

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