

SABIC Innovative Plastics LNP STAT-KON DD0001I PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DD0001I is a compound based on Polycarbonate resin containing Carbon Powder. Added features include: ECO FR rating of 94V-0 @ 3.0mm and 94V-1 @ 1.5mm, High Impact.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0001I-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 5 mm/min; ASTM D638
	52.0 MPa	7540 psi	5 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	5 mm/min; ISO 527
	65.0 MPa	9430 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	8.0 %	8.0 %	5 mm/min; ISO 527
	13 %	13 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	3.5 %	3.5 %	5 mm/min; ISO 527
	3.6 %	3.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	3.49 GPa	506 ksi	1 mm/min; ISO 527
	3.60 GPa	522 ksi	5 mm/min; ASTM D638
Flexural Strength	109 MPa	15800 psi	ISO 178
Flexural Yield Strength	114 MPa	16500 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Flexural Modulus	3.42 GPa	495 ksi	2 mm/min; ISO 178
	3.70 GPa	537 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.460 J/cm	0.862 ft-lb/in	ASTM D256
Izod Impact, Unnotched	11.5 J/cm	21.5 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	62.0 kJ/mÂ²	29.5 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	46.0 J @Temperature 23.0 Â°C	33.9 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	11.0 J	8.11 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	32.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.3 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Â°C	196 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	91.0 Â°C @Thickness 3.20 mm	196 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	83.0 Â°C	181 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	84.0 Â°C @Thickness 3.20 mm	183 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	2.0 - 5.0 ohm	2.0 - 5.0 ohm	ASTM D257

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