

SABIC Innovative Plastics LNP STAT-KON DD0009XP PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* D-FR is a compound based on Polycarbonate resin containing Carbon. Added features of this grade include: Flame Retardant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DD0009XP-PC.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	46.0 MPa	6670 psi	Type I, 5 mm/min; ASTM D638
	50.0 MPa	7250 psi	5 mm/min; ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	5 mm/min; ISO 527
	69.0 MPa	10000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	11 %	11 %	5 mm/min; ISO 527
	13 %	13 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.7 %	4.7 %	Type I, 5 mm/min; ASTM D638
	4.7 %	4.7 %	5 mm/min; ISO 527
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527
Flexural Modulus	2.52 GPa	365 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.36 J/cm	2.55 ft-lb/in	ASTM D256
Izod Impact, Unnotched	17.0 J/cm	31.8 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80*10*4; ISO 180/1A

Mechanical Properties I (ISO)	Metric J/m^2	English lb/in^2	Comments D 180/1U
Impact Test	33.0 J	24.3 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	139 °C	282 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	126 °C	259 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	130 °C	266 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	5.0 - 8.0 ohm	5.0 - 8.0 ohm	ASTM D257

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