

SABIC Innovative Plastics LNP STAT-KON DE004ER PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DE004ER is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive, Easy Molding, Mold Release.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE004ER-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 g/cc	1.39 g/cc	ASTM D792
Moisture Absorption	0.140 %	0.140 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	23Â°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.00090 cm/cm	0.00060 - 0.00090 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	133 MPa	19300 psi	5 mm/min; ISO 527
	134 MPa	19400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	133 MPa	19300 psi	5 mm/min; ISO 527
	134 MPa	19400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.7 %	1.7 %	5 mm/min; ISO 527
	1.8 %	1.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.88 GPa	1868 ksi	1 mm/min; ISO 527
	14.86 GPa	2155 ksi	50 mm/min; ASTM D638
Flexural Strength	197 MPa	28600 psi	1.3 mm/min, 50 mm span; ASTM D790
	197 MPa	28600 psi	ISO 178

Mechanical Properties	Metric	English	Comments
Flexural Modulus	10.66 GPa	1546 ksi	2 mm/min; ISO 178
	10.68 GPa	1549 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.76 J/cm	8.92 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)	29.0 kJ/m ²	13.8 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	13.0 J @Temperature 23.0 Â°C	9.59 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	3.00 J	2.21 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	142 Â°C	288 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C @Thickness 3.20 mm	286 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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