

SABIC Innovative Plastics LNP STAT-KON DE0021E PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE0021E is a compound based on Polycarbonate resin containing 10% Carbon Fiber. Added features of this material include: Easy Molding, Flame Retardant, Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE0021E-PC.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Moisture Absorption	0.100 %	0.100 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00060 - 0.0032 cm/cm	0.00060 - 0.0032 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0029 - 0.0043 cm/cm	0.0029 - 0.0043 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ISO 527
	114 MPa	16500 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
	2.1 %	2.1 %	ISO 527
Tensile Modulus	9.16 GPa	1330 ksi	50 mm/min; ASTM D638
	9.36 GPa	1360 ksi	1 mm/min; ISO 527
Flexural Strength	169 MPa	24500 psi	ISO 178
	170 MPa	24700 psi	ASTM D790
Flexural Modulus	8.21 GPa	1190 ksi	ASTM D790

Mechanical Properties	Metric ^a	English ⁱ	Comments
Izod Impact, Notched	0.370 J/cm	0.693 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.47 J/cm	6.50 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ²	3.33 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	31.0 kJ/mÂ²	14.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J	6.64 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.7 Âµm/m-Â°C	9.28 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	16.7 Âµm/m-Â°C	9.28 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	60.8 Âµm/m-Â°C	33.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	60.9 Âµm/m-Â°C	33.8 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Â°C	205 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	93.0 Â°C	199 Â°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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