

SABIC Innovative Plastics LNP STAT-KON DEL33EC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL33EC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 15% PTFE. Added features include:
Clean Compounding System, Electrically Conductive, Wear Resistant, Easy Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL33EC-PC.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Moisture Absorption	0.150 %	0.150 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0014 cm/cm	0.0014 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0046 cm/cm	0.0046 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0050 cm/cm	0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	96.0 MPa	13900 psi	ISO 527
	97.0 MPa	14100 psi	ASTM D638
Elongation at Break	3.2 %	3.2 %	ASTM D638
	3.4 %	3.4 %	ISO 527
Tensile Modulus	7.89 GPa	1140 ksi	1 mm/min; ISO 527
	8.48 GPa	1230 ksi	50 mm/min; ASTM D638
Flexural Strength	159 MPa	23100 psi	ASTM D790
	160 MPa	23200 psi	ISO 178
Flexural Modulus	7.30 GPa	1060 ksi	ASTM D790

Mechanical Properties	7.84 GPa Metric	1140 ksi English	ISO 178 Comments
Izod Impact, Notched	0.840 J/cm	1.57 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.15 J/cm	7.77 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ²	3.81 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	33.0 kJ/mÂ²	15.7 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C	10.0 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	18.0 Âµm/m-Â°C	10.0 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	46.4 Âµm/m-Â°C	25.8 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	46.8 Âµm/m-Â°C	26.0 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	146 Â°C	295 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	145 Â°C	293 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	141 Â°C	286 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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

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