

SABIC Innovative Plastics LNP STAT-KON DEL13EXC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL13EXC is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 5% PTFE. Added features of this material include: Easy Molding, Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL13EXC-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption	0.110 %	0.110 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.00080 - 0.0010 cm/cm	0.00080 - 0.0010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	126 MPa	18300 psi	5 mm/min; ISO 527
	131 MPa	19000 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.3 %	1.3 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.3 %	1.3 %	5 mm/min; ISO 527
	1.6 %	1.6 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	13.01 GPa	1887 ksi	1 mm/min; ISO 527
	13.4 GPa	1940 ksi	50 mm/min; ASTM D638
Flexural Strength	163 MPa	23600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	163 MPa	23600 psi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric Pa	English	Comments
	10.23 GPa	1484 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.22 J/cm	7.91 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)	24.0 kJ/m ²	11.4 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 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
CTE, linear, Parallel to Flow	1.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.556 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	7.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	3.89 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Â°C	280 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Â°C @Thickness 3.20 mm	279 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 10000 ohm	10 - 10000 ohm	ASTM D257

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