

SABIC Innovative Plastics LNP STAT-KON DE0029EF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE0029EF 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-DE0029EF-PC.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ASTM D792
	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption	0.160 %	0.160 %	50% RH, 24 hrs; ASTM D570
	0.200 %	0.200 %	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	114 MPa	16500 psi	ASTM D638
	117 MPa	17000 psi	ISO 527
Elongation at Break	2.3 %	2.3 %	ASTM D638
	2.4 %	2.4 %	ISO 527
Tensile Modulus	8.50 GPa	1230 ksi	1 mm/min; ISO 527
	8.89 GPa	1290 ksi	50 mm/min; ASTM D638
Flexural Strength	180 MPa	26100 psi	ASTM D790
	183 MPa	26500 psi	ISO 178

Mechanical Properties	Metric ^P	English ^I	Comments ^I
	8.80 GPa	1280 ksi	ISO 178
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.44 J/cm	8.32 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/mÂ²	2.86 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/mÂ²	13.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J	12.5 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.5 Âµm/m-Â°C	13.1 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	23.6 Âµm/m-Â°C	13.1 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	34.5 Âµm/m-Â°C	19.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	34.6 Âµm/m-Â°C	19.2 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)	144 Â°C	291 Â°F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	140 Â°C	284 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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