

SABIC Innovative Plastics LNP STAT-KON DE0049F PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DE0049F is a compound based on Polycarbonate resin containing 20% Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Superior, Molding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE0049F-PC.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	134 MPa	19400 psi	5 mm/min; ISO 527
	137 MPa	19900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	134 MPa	19400 psi	5 mm/min; ISO 527
	137 MPa	19900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	166 %	166 %	Flexural Strain, break, 2 mm/min; ISO 178
	1.6 %	1.6 %	5 mm/min; ISO 527
Tensile Modulus	13.42 GPa	1946 ksi	50 mm/min; ASTM D638
	14.97 GPa	2171 ksi	1 mm/min; ISO 527
Flexural Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	190 MPa Metric	27600 psi English	D790 Comments
Flexural Yield Strength	166 MPa	24100 psi	2 mm/min; ISO 178
Flexural Modulus	11.55 GPa	1675 ksi	1.3 mm/min, 50 mm span; ASTM D790
	11.65 GPa	1690 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256
Izod Impact, Unnotched	4.88 J/cm	9.14 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	5.00 kJ/mÂ²	2.38 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	1.23 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	0.683 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	1.23 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	0.683 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	6.79 Âµm/m-Â°C @Temperature 23.0 - 60.0 Â°C	3.77 Âµin/in-Â°F @Temperature 73.4 - 140 Â°F	ISO 11359-2
	6.79 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	3.77 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

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