

SABIC Innovative Plastics LNP STAT-KON DE0039 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DE0039 is a compound based on Polycarbonate resin containing 15% Carbon Fiber. Added features of this material include: Flame Retardant. Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE0039-PC.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0013 cm/cm	0.0013 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	0.0038 cm/cm	0.0038 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	118 MPa	17100 psi	ASTM D638
	119 MPa	17300 psi	
Tensile Strength, Yield	118 MPa	17100 psi	ASTM D638
	119 MPa	17300 psi	
Elongation at Break	2.4 %	2.4 %	ASTM D638
	2.4 %	2.4 %	
Elongation at Yield	2.3 %	2.3 %	ISO 527
	2.4 %	2.4 %	
Tensile Modulus	9.26 GPa	1340 ksi	1 mm/min; ISO 527

Mechanical Properties	9.65 GPa Metric	1400 ksi English	50 mm/min; ASTM D638 Comments
Flexural Strength	144 MPa	20900 psi	ASTM D790
	181 MPa	26300 psi	ISO 178
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
	8.60 GPa	1250 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.50 J/cm	10.3 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)	32.0 kJ/m ²	15.2 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	18.0 J	13.3 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	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	45.0 Åµm/m-Å°C	25.0 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
CTE, linear, Transverse to Flow	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	150 Å°C	302 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	150 Å°C	302 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 Å°C	295 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	147 Å°C	297 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648

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

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