

SABIC Innovative Plastics LNP Stat-kon DEL339XC PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL339XC is a compound based on Polycarbonate resin containing Carbon Fiber, PTFE, Flame Retardant. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-DEL339XC-PC.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D 792
	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.10 %	0.10 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00050 cm/cm	0.00050 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
	0.0010 cm/cm	0.0010 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
	0.0044 cm/cm	0.0044 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	129 MPa	18700 psi	ASTM D 638
	129 MPa	18700 psi	ISO 527
Elongation at Break	1.8 %	1.8 %	ISO 527
	2.0 %	2.0 %	ASTM D 638
Tensile Modulus	12.7 GPa	1840 ksi	1 mm/min; ISO 527
	14.34 GPa	2080 ksi	50 mm/min; ASTM D 638
Flexural Strength	195 MPa	28300 psi	ASTM D 790
	200 MPa	29000 psi	ISO 178
Flexural Modulus	11.23 GPa	1629 ksi	ASTM D 790

Mechanical Properties	Metric 12.4 GPa	English 1800 ksi	Comments ISO 178
Izod Impact, Notched	0.740 J/cm @Temperature 23.0 Â°C	1.39 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.85 J/cm @Temperature 23.0 Â°C	9.09 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	8.00 kJ/mÂ² @Temperature 23.0 Â°C	3.81 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	29.0 kJ/mÂ² @Temperature 23.0 Â°C	13.8 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603
	12.0 J @Temperature 23.0 Â°C	8.85 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	34.7 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	19.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	39.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	39.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.9 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	149 Â°C	300 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	150 Â°C @Thickness 3.20 mm	302 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	annealed, ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	10 - 1.00e+6 ohm	10 - 1.00e+6 ohm	ASTM D 257

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