

SABIC Innovative Plastics LNP STAT-KON DEL339XF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DEL339XF is a compound based on Polycarbonate resin containing 15% Carbon Fiber, 15% PTFE. Added features include:
Electrically Conductive, Flame Retardant, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL339XF-PC.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ISO 1183
	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0031 cm/cm	0.0031 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
	0.0040 cm/cm	0.0040 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16200 psi	ISO 527
	114 MPa	16500 psi	ASTM D638
Tensile Strength, Yield	112 MPa	16200 psi	ISO 527
	114 MPa	16500 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ISO 527
	1.8 %	1.8 %	ASTM D638
Elongation at Yield	1.6 %	1.6 %	ISO 527
	1.8 %	1.8 %	ASTM D638
Tensile Modulus	10.34 GPa	1500 ksi	50 mm/min; ASTM D638

Mechanical Properties	10.95 GPa Metric	1588 ksi English	1 mm/min* ISO 527 Comments
Flexural Strength	164 MPa	23800 psi	ISO 178
	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
	9.50 GPa	1380 ksi	ISO 178
Izod Impact, Notched	0.580 J/cm	1.09 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.57 J/cm	6.69 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)	24.0 kJ/mÂ²	11.4 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	12.0 J	8.85 ft-lb	Instrumented Impact Energy @ peak; 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	62.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	34.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	63.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	35.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	14.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	7.78 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	14.4 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	8.00 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	142 Â°C	288 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	141 Â°C @Thickness 3.20 mm	286 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 Â°C	286 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/ Af
	140 Â°C @Thickness 3.20 mm	284 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+7 - 1.00e+9 ohm	1.00e+7 - 1.00e+9 ohm	ASTM D257

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