

SABIC Innovative Plastics LNP STAT-KON DEL329XF PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL329XF is a compound based on Polycarbonate resin containing 10% Carbon Fiber, 15% PTFE. Added features include: Electrically Conductive. Wear Resistant, Flame Retardant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL329XF-PC.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Moisture Absorption	0.0900 %	0.0900 %	50% RH, 24 hrs; ASTM D570
	0.140 %	0.140 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0014 - 0.0019 cm/cm	0.0014 - 0.0019 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0052 cm/cm	0.0045 - 0.0052 in/in	ISO 294
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	91.0 MPa	13200 psi	ASTM D638
	94.0 MPa	13600 psi	ISO 527
Elongation at Break	1.9 %	1.9 %	ISO 527
	2.0 %	2.0 %	ASTM D638
Tensile Modulus	7.17 GPa	1040 ksi	50 mm/min; ASTM D638
	7.30 GPa	1060 ksi	1 mm/min; ISO 527
Flexural Strength	138 MPa	20000 psi	ASTM D790
	139 MPa	20200 psi	ISO 178

Flexural Modulus Mechanical Properties	6.48 GPa Metric	940 ksi English	ASTM D790 Comments
	7.30 GPa	1060 ksi	ISO 178
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.15 J/cm	5.90 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	7.00 kJ/m ^Å ²	3.33 ft-lb/in ^Å ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ^Å ²	10.5 ft-lb/in ^Å ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	15.0 J	11.1 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	24.1 Åµm/m-Å°C	13.4 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	24.1 Åµm/m-Å°C	13.4 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	41.9 Åµm/m-Å°C	23.3 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	41.9 Åµm/m-Å°C	23.3 Åµin/in-Å°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	141 Å°C	286 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 Å°C	289 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 Å°C	280 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	139 Å°C	282 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D648
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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