

SABIC Innovative Plastics LNP STAT-KON DEL329XF PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DEL329XF is a compound based on Polycarbonate resin containing Carbon Fiber, Flame Retardant, PTFE. Added features of this material include: Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL329XF-PC-Asia-Pacific.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	
Melt Index of Compound	20 g/10 min	20 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 6.70 kg, Temperature 300 ^o C	@Load 14.8 lb, Temperature 572 ^o F	

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 Mechanical Properties	138 MPa Metric	20000 psi English	ASTM D790 Comments
	139 MPa	20200 psi	ISO 178
Flexural Modulus	6.48 GPa	940 ksi	ASTM D790
	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 ²	3.33 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in 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 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
	24.1 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	13.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	41.9 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	23.3 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	141 $\text{Å}^\circ\text{C}$	286 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	289 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	138 $\text{Å}^\circ\text{C}$	280 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
	139 $\text{Å}^\circ\text{C}$ @Thickness 3.20 mm	282 $\text{Å}^\circ\text{F}$ @Thickness 0.126 in	
Flammability, UL94	V-0	V-0	UL 94 by SABIC-IP

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D257

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