

SABIC Innovative Plastics LNP STAT-KON DEL329E PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* Stat-kon* DEL329E is a compound based on Polycarbonate resin containing PTFE, Flame Retardant, Carbon Fiber. Added features of this material include: Electrically Conductive, Flame Retardant, Internally Lubricated.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL329E-PC-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0050 cm/cm @Time 86400 sec	0.0020 - 0.0050 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm @Time 86400 sec	0.0050 - 0.0080 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	5 mm/min; ISO 527
	95.0 MPa	13800 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.2 %	2.2 %	Type I, 5 mm/min; ASTM D638
	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	7.10 GPa	1030 ksi	1 mm/min; ISO 527
	7.36 GPa	1070 ksi	5 mm/min; ASTM D638
Flexural Strength	140 MPa	20300 psi	ISO 178
	141 MPa	20500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	143 MPa	20700 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.32 GPa	917 ksi	1.3 mm/min, 50 mm span; ASTM D790
	6.53 GPa	947 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.620 J/cm	1.16 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.99 J/cm	7.47 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	17.0 J @Temperature 23.0 Â°C	12.5 ft-lb @Temperature 73.4 Â°F	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	25.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	13.9 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	73.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	40.6 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	148 Â°C	298 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	149 Â°C @Thickness 3.20 mm	300 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	145 Â°C	293 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	146 Â°C @Thickness 3.20 mm	295 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 6.0 ohm	1.0 - 6.0 ohm	ASTM D257

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