

SABIC Innovative Plastics LNP STAT-KON DEL139P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DEL139P is a compound based on Polycarbonate containing 15% Carbon Fiber, 5% PTFE. Added features of this grade include: Electrically Conductive, Exceptional Processing, Flame Retardant, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL139P-PC.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.160 %	0.160 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Transverse	<= 0.00010 cm/cm	<= 0.00010 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	125 MPa	18100 psi	5 mm/min; ISO 527
	126 MPa	18300 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	125 MPa	18100 psi	5 mm/min; ISO 527
	126 MPa	18300 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	1.6 %	1.6 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	5 mm/min; ISO 527
	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	12.08 GPa	1752 ksi	50 mm/min; ASTM D638
	13.54 GPa	1964 ksi	1 mm/min; ISO 527
Flexural Strength	189 MPa	27400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.64 GPa	1400 ksi	2 mm/min; ISO 178
	10.01 GPa	1452 ksi	1.3 mm/min, 50 mm span; ASTM D790

Izod Impact, Notched Mechanical Properties	0.450 J/cm Metric	0.843 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	4.33 J/cm	8.11 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	27.0 kJ/mÂ²	12.8 ft-lb/inÂ²	80*10*4; ISO 180/1U
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 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)	140 Â°C	284 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	137 Â°C @Thickness 3.20 mm	279 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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

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