

SABIC Innovative Plastics LNP STAT-KON DEL36 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DEL36 is a compound based on Polycarbonate resin containing 30% Carbon Fiber, 15% PTFE. Added features include:
Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEL36-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Density	1.43 g/cc	0.0517 lb/in ³	ISO 1183
Moisture Absorption	0.0800 %	0.0800 %	50% RH, 24 hrs; ASTM D570
	0.120 %	0.120 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00020 - 0.00040 cm/cm	0.00020 - 0.00040 in/in	ASTM D955
	@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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	123 MPa	17800 psi	Type I, 5 mm/min; ASTM D638
	123 MPa	17800 psi	5 mm/min; ISO 527
Elongation at Break	1.4 %	1.4 %	Type I, 5 mm/min; ASTM D638
	1.5 %	1.5 %	5 mm/min; ISO 527
Tensile Modulus	15.74 GPa	2283 ksi	1 mm/min; ISO 527
	21.22 GPa	3078 ksi	50 mm/min; ASTM D638
Flexural Strength	184 MPa	26700 psi	1.3 mm/min, 50 mm span; ASTM D790
	193 MPa	28000 psi	ISO 178
Flexural Modulus	13.3 GPa	1930 ksi	1.3 mm/min, 50 mm span; ASTM D790
	14.39 GPa	2087 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹	English ¹	Comments ²
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)	30.0 kJ/m ²	14.3 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	16.0 J @Temperature 23.0 Â°C	11.8 ft-lb @Temperature 73.4 Â°F	ASTM D3763
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.4 Âµm/m-Â°C	9.11 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
CTE, linear, Transverse to Flow	37.2 Âµm/m-Â°C	20.7 Âµin/in-Â°F	ASTM D696
	@Temperature -30.0 - 30.0 Â°C	@Temperature -22.0 - 86.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	150 Â°C	302 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)	144 Â°C	291 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	144 Â°C @Thickness 3.20 mm	291 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	1.0 - 4.0 ohm	1.0 - 4.0 ohm	ASTM D257

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