

SABIC Innovative Plastics LNP STAT-KON DE003Z PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE003Z is a compound based on Polycarbonate resin containing 15% Carbon Fiber. Added features of this material include: Electrically Conductive, Extrusion Grade.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE003Z-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Density	1.253 g/cc	0.04527 lb/in ³	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	130 MPa	18900 psi	5 mm/min; ISO 527
	134 MPa	19400 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	134 MPa	19400 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.4 %	2.4 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	5 mm/min; ISO 527
Tensile Modulus	10.66 GPa	1546 ksi	1 mm/min; ISO 527
	11.32 GPa	1642 ksi	5 mm/min; ASTM D638
Flexural Strength	191 MPa	27700 psi	ISO 178
	200 MPa	29000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.12 GPa	1320 ksi	1.3 mm/min, 50 mm span; ASTM D790
	9.29 GPa	1350 ksi	2 mm/min; ISO 178

Izod Impact, Notched Mechanical Properties	0.980 J/cm Metric	1.84 ft-lb/in English	ASTM D256 Comments
Izod Impact, Unnotched	6.23 J/cm	11.7 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	39.0 kJ/m ²	18.6 ft-lb/in ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	24.0 J @Temperature 23.0 Â°C	17.7 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	22.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	12.2 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	48.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	26.7 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	147 Â°C	297 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	147 Â°C @Thickness 3.20 mm	297 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 Â°C	289 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

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