

SABIC Innovative Plastics LNP STAT-KON DE003M PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DE003M is a compound based on Polycarbonate containing 15% Milled Carbon Fiber. Added feature of this grade is:
Electrically Conductive.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DE003M-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Moisture Absorption	0.130 %	0.130 %	50% RH, 24 hrs; ASTM D570
	0.210 %	0.210 %	23Â°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	100 MPa	14500 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	100 MPa	14500 psi	5 mm/min; ISO 527
	101 MPa	14600 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.8 %	2.8 %	5 mm/min; ISO 527
	2.9 %	2.9 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	2.7 %	2.7 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	8.04 GPa	1170 ksi	1 mm/min; ISO 527
	8.47 GPa	1230 ksi	50 mm/min; ASTM D638
Flexural Strength	162 MPa	23500 psi	ISO 178
	175 MPa	25400 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength			1.3 mm/min, 50 mm span; ASTM

Mechanical Properties	175 MPa Metric	25400 psi English	D790 Comments
Flexural Modulus	6.84 GPa	992 ksi	2 mm/min; ISO 178
	9.79 GPa	1420 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.730 J/cm	1.37 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.19 J/cm	11.6 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	38.0 kJ/m ²	18.1 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	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	2.00 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	1.11 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	0.700 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	0.389 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
	148 Â°C @Thickness 3.20 mm	298 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	3.0 - 5.0 ohm	3.0 - 5.0 ohm	ASTM D257

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