

SABIC Innovative Plastics LNP Stat-kon DE002P PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP STAT-KON* DE002P is a compound based on Polycarbonate resin containing Carbon Fiber. Added features of this material include: Electrically Conductive. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-DE002P-PC.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D 792
	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23 ^o C / 50% RH; ISO 62
	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	50% RH; ASTM D 570
Linear Mold Shrinkage, Flow	0.00060 - 0.0032 cm/cm @Time 86400 sec	0.00060 - 0.0032 in/in @Time 24.0 hour	ISO 294
	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ASTM D 955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0040 cm/cm @Time 86400 sec	0.0020 - 0.0040 in/in @Time 24.0 hour	ASTM D 955
	0.0029 - 0.0043 cm/cm @Time 86400 sec	0.0029 - 0.0043 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	115 MPa	16700 psi	ASTM D 638
	118 MPa	17100 psi	ISO 527
Elongation at Break	2.4 %	2.4 %	ASTM D 638
	2.5 %	2.5 %	ISO 527
Tensile Modulus	8.50 GPa	1230 ksi	1 mm/min; ISO 527
	8.68 GPa	1260 ksi	50 mm/min; ASTM D 638
Flexural Strength	185 MPa	26800 psi	ASTM D 790

Mechanical Properties	189 MPa Metric	27400 psi English	ISO 178 Comments
Flexural Modulus	7.37 GPa	1070 ksi	ASTM D 790
	8.50 GPa	1230 ksi	ISO 178
Izod Impact, Notched	0.640 J/cm @Temperature 23.0 Â°C	1.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Unnotched	4.91 J/cm @Temperature 23.0 Â°C	9.20 ft-lb/in @Temperature 73.4 Â°F	ASTM D 4812
Izod Impact, Notched (ISO)	7.00 kJ/mÂ² @Temperature 23.0 Â°C	3.33 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	34.0 kJ/mÂ² @Temperature 23.0 Â°C	16.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1U
Impact Test	4.00 J	2.95 ft-lb	Multiaxial Impact; ISO 6603
	14.0 J @Temperature 23.0 Â°C	10.3 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	18.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	10.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	38.3 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	38.3 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	21.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	143 Â°C	289 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	143 Â°C @Thickness 3.20 mm	289 Â°F @Thickness 0.126 in	unannealed; ASTM D 648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	Flatw 80*10-4 sp=64mm; ISO 75/A1
	140 Â°C	284 Â°F	unannealed; ASTM D 648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flammability, UL94	V-2	V-2	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	100 - 1.00e+6 ohm	100 - 1.00e+6 ohm	ASTM D 257

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China