

SABIC Innovative Plastics LNP STAT-KON DEP32 PC

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

LNP* STAT-KON* DEP32 is a compound based on Polycarbonate containing 10% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-DEP32-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Moisture Absorption	0.120 %	0.120 %	50% RH, 24 hrs; ASTM D570
	0.180 %	0.180 %	23 ^o C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	105 MPa	15200 psi	5 mm/min; ISO 527
	108 MPa	15700 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	2.6 %	2.6 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.77 GPa	1130 ksi	1 mm/min; ISO 527
	7.79 GPa	1130 ksi	5 mm/min; ASTM D638
Flexural Strength	161 MPa	23400 psi	ISO 178
	163 MPa	23600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	166 MPa	24100 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	6.95 GPa	1010 ksi	2 mm/min; ISO 178
	6.97 GPa	1010 ksi	1.3 mm/min, 50 mm span; ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	4.68 J/cm	8.77 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	32.0 kJ/m ²	15.2 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	7.00 J	5.16 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	9.44 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	60.0 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	33.3 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
	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
	145 Â°C @Thickness 3.20 mm	293 Â°F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistance	100 ohm	100 ohm	ASTM D257

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