

**Product Texts**

LNP STAT-KON DEP32 compound is based on Polycarbonate (PC) resin containing 10% carbon fiber, 15% PTFE/silicone. Added features of this grade include: Electrically Conductive, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	7800	MPa	ISO 527
Stress at break	108	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	6950	MPa	ISO 178
Flexural strength	161	MPa	ISO 178
Izod impact strength, +23°C, 4mm	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	7790	MPa	ASTM D 638
Tensile Strength at Break	108	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	6970	MPa	ASTM D 790
Izod Impact notched, 1/8 in	114	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	468	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	141	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	17	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	59.9	E-6/K	ASTM D 696
DTUL @ 66 psi	148	°C	ASTM D 648
DTUL @ 264 psi	145	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	100	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.18	%	Sim. to ISO 62
Water Absorption, 24hr	0.12	%	ASTM D 570
Density	1280	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

## LNP™ STAT-KON™ Compound DEP32 - Americas

(PC+PTFE)-CF10

Saudi Basic Industries Corporation (SABIC)

### Characteristics

#### Processing

Injection Molding

#### Regional Availability

North America

#### Special Characteristics

Increased electrical conductivity