LNP™ STAT-KON™ Compound DEL22P

(PC+PTFE)-CF10 — Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON DEL22P compound is based on Polycarbonate (PC) resin containing 10% carbon fiber, 10% PTFE. Added features of this grade include: Electrically Conductive. Exceptional Processing, Wear Resistant.

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**8170**	MPa	ISO 527
Stress at break	**101**	MPa	ISO 527
Strain at break	**2**	%	ISO 527
Izod impact strength, +23°C, 4mm	**34**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	**6**	kJ/m²	ISO 180/1A
ASTM Data			
Tensile Modulus	**7900**	MPa	ASTM D 638
Tensile Strength at Break	**100**	MPa	ASTM D 638
Elongation at Break	**2**	%	ASTM D 638
Flexural Modulus	**5690**	MPa	ASTM D 790
Flexural Strength	**152**	MPa	ASTM D 790
Izod Impact notched, 1/8 in	**74**	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	**283**	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	**143**	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	**134**	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1**	Ohm*m	IEC 62631-3-1
Surface resistivity	**1000000**	Ohm	IEC 62631-3-2

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.18**	%	Sim. to ISO 62
Density	**1300**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.1**	%	ASTM D 570
Density	**1300**	kg/m³	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	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity