

LNP™ STAT-KON™ Compound DEL139P

(PC+PTFE)-CF15

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON DEL139P compound is based on Polycarbonate (PC) resin containing 15% carbon fiber, 5% PTFE. Added features of this grade include: Electrically Conductive, Exceptional Processing, Flame Retardant, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.12	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.49	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	13500	MPa	ISO 527
Yield stress	125	MPa	ISO 527
Yield strain	1.5	%	ISO 527
Stress at break	125	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	9640	MPa	ISO 178
Izod impact strength, +23°C, 4mm	27	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	12080	MPa	ASTM D 638
Tensile Strength at Yield	126	MPa	ASTM D 638
Tensile Strength at Break	126	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	10010	MPa	ASTM D 790
Izod Impact notched, 1/8 in	45	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	433	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	140	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	145	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	141	°C	ASTM D 648
DTUL @ 264 psi	137	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.16	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183
Water Absorption, 24hr	0.12	%	ASTM D 570
Density	1340	kg/m ³	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

Special Characteristics

Increased electrical conductivity, Flame retardant

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific