

LNP™ STAT-KON™ Compound EX07311P

(PEI+PTFE)-(CF+GF)

Saudi Basic Industries Corporation (SABIC)

Product Texts

LNP STAT-KON EX07311P compound is based on Polyetherimide (PEI) resin containing carbon fiber (15%), glass fiber (25%) and PTFE. Added features of this grade include: LNP Clean Compounding Technology, Electrically Conductive, Dimensional Stability, Wear Resistant.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	30	cm ³ /10min	ISO 1133
Temperature	345	°C	-
Load	10	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15200	MPa	ISO 527
Stress at break	174	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	13200	MPa	ISO 178
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	15000	MPa	ASTM D 638
Tensile Strength at Break	175	MPa	ASTM D 638
Elongation at Break	2.1	%	ASTM D 638
Flexural Modulus	11500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	56	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	204	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	202	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ISO Data			
Surface resistivity	1000000	Ohm	IEC 62631-3-2
ASTM Data			
Surface Resistivity	1000000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1560	kg/m ³	ISO 1183
Density	1560	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Processing humidity	≤0.02	%	-
Melt temperature	360 - 375	°C	-
Mold temperature	140 - 180	°C	-
Zone 1	355 - 365	°C	-
Zone 2	360 - 370	°C	-
Zone 3	365 - 375	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity