

Product Texts

LNP STAT-KON AE002 compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 10% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
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
ISO Data			
Tensile Modulus	7400	MPa	ISO 527
Yield stress	82	MPa	ISO 527
Yield strain	1.4	%	ISO 527
Stress at break	82	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus	6500	MPa	ISO 178
Flexural strength	112	MPa	ISO 178
Izod impact strength, +23°C, 4mm	15	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	7400	MPa	ASTM D 638
Tensile Strength at Yield	86	MPa	ASTM D 638
Tensile Strength at Break	83	MPa	ASTM D 638
Elongation at Yield	1.5	%	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	6660	MPa	ASTM D 790
Izod Impact notched, 1/8 in	51	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	237	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	101	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	105	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	33.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	82.4	E-6/K	ASTM D 696
DTUL @ 66 psi	106	°C	ASTM D 648
DTUL @ 264 psi	101	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.35	%	Sim. to ISO 62
Density	1160	kg/m ³	ISO 1183
Water Absorption, 24hr	0.23	%	ASTM D 570
Density	1160	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	260	°C	-
Mold temperature	70 - 80	°C	-
Zone 1	205 - 215	°C	-
Zone 2	230 - 245	°C	-

LNP™ STAT-KON™ Compound AE002 - Americas

ABS-CF10

Saudi Basic Industries Corporation (SABIC)

Zone 3	265 - 275	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America

Special Characteristics

Increased electrical conductivity