

Product Texts

LNP STAT-KON AE008XXY compound is based on Acrylonitrile Butadiene Styrene (ABS) resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.2	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	25300	MPa	ISO 527
Stress at break	141	MPa	ISO 527
Strain at break	0.9	%	ISO 527
Flexural modulus	24700	MPa	ISO 178
Flexural strength	215	MPa	ISO 178
Izod impact strength, +23°C, 4mm	18	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	30060	MPa	ASTM D 638
Tensile Strength at Break	143	MPa	ASTM D 638
Elongation at Break	0.9	%	ASTM D 638
Flexural Modulus	23700	MPa	ASTM D 790
Izod Impact notched, 1/8 in	59	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	317	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	107	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	21.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	25	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	1000000	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.24	%	Sim. to ISO 62
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1270	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	-
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, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity