

Product Texts

LNP STAT-KON WD000 compound is based on Polybutylene Terephthalate (PBT) resin containing proprietary fillers. Added features of this grade include: Electrically Conductive, Radar Absorbing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0225	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0225	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3160	MPa	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus, 23°C	3100	MPa	ISO 178
Flexural strength	99	MPa	ISO 178
ASTM Data			
Tensile Modulus	3210	MPa	ASTM D 638
Tensile Strength at Break	54	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	3210	MPa	ASTM D 790
Flexural Strength	98	MPa	ASTM D 790
Izod Impact notched, 1/8 in	25	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	240	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	85	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	80	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	80	E-6/K	ASTM D 696
DTUL @ 264 psi	84.5	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	10000	Ohm	ASTM D 257
Volume Resistivity	1000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Humidity absorption	0.02	%	Sim. to ISO 62
Density	1360	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	≤0.05	%	-
Melt temperature	240 - 265	°C	-
Mold temperature	80 - 100	°C	-
Zone 1	220 - 230	°C	-
Zone 2	245 - 255	°C	-
Zone 3	260 - 270	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Special Characteristics

Increased electrical conductivity

Applications

Automotive, Electrical and Electronical

Regional Availability

North America, Europe, Asia Pacific, South and Central America