

Product Texts

LNP STAT-KON WEF42I compound is based on Polybutylene Terephthalate (PBT) resin containing 10% carbon fiber, 20% glass fiber. Added features of this grade include: High Impact, Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	15800	MPa	ISO 527
Stress at break	99	MPa	ISO 527
Strain at break	2.5	%	ISO 527
Flexural modulus	10500	MPa	ISO 178
Flexural strength	169	MPa	ISO 178
Izod impact strength, +23°C, 4mm	45	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	21840	MPa	ASTM D 638
Tensile Strength at Break	94	MPa	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	9990	MPa	ASTM D 790
Izod Impact notched, 1/8 in	125	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	710	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	203	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220	°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	134	E-6/K	ASTM D 696
DTUL @ 66 psi	219	°C	ASTM D 648
DTUL @ 264 psi	205	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1440	kg/m ³	ISO 1183
Density	1440	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

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity