

Product Texts

LNP STAT-KON WDF40 compound is based on Polybutylene Terephthalate (PBT) resin containing 20% glass fibers and proprietary fillers. Added features for this grade include: Electrically Conductive, Radar Absorbing.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.0135	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7660	MPa	ISO 527
Stress at break	77	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus, 23°C	7460	MPa	ISO 178
Flexural strength	119	MPa	ISO 178
Izod impact strength, +23°C	11	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	5	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	7710	MPa	ASTM D 638
Tensile Strength at Break	80	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	7110	MPa	ASTM D 790
Flexural Strength	117	MPa	ASTM D 790
Izod Impact notched, 1/8 in	48	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	170	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	199	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	40	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	79	E-6/K	ASTM D 696
DTUL @ 264 psi	206	°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	0.016	%	Sim. to ISO 62
Density	1500	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

Applications

Automotive, Electrical and Electronical

Special Characteristics

Increased electrical conductivity

Regional Availability

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