

Product Texts

LNP STAT-KON WDF40RID compound is based on Polybutylene Terephthalate (PBT) resin based containing 20% glass fibers and proprietary fillers. Added features for this grade include: Electrically Conductive, Radar Absorbing, higher flowability, and better warpage control.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	280	°C	-
Load	5	kg	-
ASTM Data			
Mold Shrinkage, MD	0.004	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.009	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	7940	MPa	ISO 527
Stress at break	100	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus, 23°C	6500	MPa	ISO 178
Flexural strength	140	MPa	ISO 178
Charpy impact strength, +23°C	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	50	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6.5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	7400	MPa	ASTM D 638
Tensile Strength at Break	100	MPa	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	6890	MPa	ASTM D 790
Flexural Strength	150	MPa	ASTM D 790
Izod Impact notched, 1/8 in	70	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	65	J/m	ASTM D 256
Temperature	-30	°C	-
Izod Impact unnotched, 1/8 in	550	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	190	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	215	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	70	E-6/K	ISO 11359-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	30	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	70	E-6/K	ASTM D 696
DTUL @ 66 psi	216	°C	ASTM D 648
DTUL @ 264 psi	191	°C	ASTM D 648

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

Other properties	Value	Unit	Test Standard
Density	1400	kg/m ³	ISO 1183
Density	1400	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	260 - 290	°C	-
Mold temperature	50 - 110	°C	-
Zone 1	250 - 280	°C	-
Zone 2	260 - 290	°C	-
Zone 3	260 - 290	°C	-
Nozzle temperature	265 - 295	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Increased electrical conductivity

Features

Low Warpage

Applications

Automotive, Electrical and Electronical

Regional Availability

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