LNP™ STAT-KON™ Compound WDF40

DESCRIPTION

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.

GENERAL INFORMATION	
Features	Electrically Conductive, Radar Absorption, No PFAS intentionally added
Fillers	Proprietary Filler, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polybutylene Terephthalate (PBT)
Processing Techniques	Injection Molding

TYPICAL PROPERTY VALUES

Revision 20260420

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, brk, Type I, 5 mm/min	80	MPa	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D638
Tensile Modulus, 5 mm/min	7710	MPa	ASTM D638
Flexural Strength, 1.3 mm/min, 50 mm span	117	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	7110	MPa	ASTM D790
Tensile Stress, break, 5 mm/min	77	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.4	%	ISO 527
Tensile Modulus, 1 mm/min	7660	MPa	ISO 527
Flexural Strength, 2 mm/min	119	MPa	ISO 178
Flexural Modulus, 2 mm/min	7460	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	170	J/m	ASTM D4812
Izod Impact, notched, 23°C	48	J/m	ASTM D256
Instrumented Dart Impact Total Energy, 23°C	3.4	J	ASTM D3763
Izod Impact, unnotched 80*10*4 +23°C	11	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL [1]			
CTE, -40°C to 40°C, flow	4.0E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	7.9E-05	1/°C	ASTM E831
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	199	°C	ISO 75/Af
HDT, 1.82 MPa, 3.2mm, unannealed	206	°C	ASTM D648
PHYSICAL [1]			
Specific Gravity	1.5	-	ASTM D792
Moisture Absorption, (23°C/50% RH/24hrs)	0.016	%	ISO 62-4
Mold Shrinkage, flow	0.5 – 0.8	%	SABIC method
Mold Shrinkage, xflow	1.2 – 1.5	%	SABIC method
ELECTRICAL [1]			
Surface Resistivity	1E+01 – 1E+04	Ω	ASTM D257

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Volume Resistivity	1E+00 – 1E+03	Ω.cm	ASTM D257
Dielectric Constant			
77 GHz [2]	13.31	-	-
Dissipation Factor			
77 GHz [2]	0.71	-	-
INJECTION MOLDING [3]			
Drying Temperature	120	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) The measurement is based on the Free Space Method.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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