LNP™ STAT-KON™ Compound FX98501

PDX-F-98501
REGION AMERICAS

DESCRIPTION

LNP STAT-KON FX98501 compound is based on Polyethylene (PE) resin containing conductive carbon powder and glass fiber. Added features of this grade include: Electrically Conductive.

GENERAL INFORMATION	
Features	Electrically Conductive, No PFAS intentionally added
Fillers	Carbon Powder, Glass Fiber (Total fluorine >50ppm only from inorganic fluorine)
Polymer Types	Polyethylene, Unspecified (PE, Unspecified)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Automotive	Automotive Under the Hood
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 5 mm/min	39	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	29	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	5.8	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	8.5	%	ASTM D638
Tensile Modulus, 50 mm/min	3340	MPa	ASTM D638
Flexural Modulus, 1.3 mm/min, 50 mm span	2230	MPa	ASTM D790
Tensile Stress, yield, 5 mm/min	36	MPa	ISO 527
Tensile Stress, break, 5 mm/min	32	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.6	%	ISO 527
Tensile Strain, break, 5 mm/min	7.7	%	ISO 527
Tensile Modulus, 1 mm/min	2820	MPa	ISO 527
Flexural Stress	45	MPa	ISO 178
Flexural Modulus, 2 mm/min	2350	MPa	ISO 178
IMPACT [1]			
Izod Impact, unnotched, 23°C	541	J/m	ASTM D4812
Izod Impact, notched, 23°C	151	J/m	ASTM D256
Multiaxial Impact	4	J	ISO 6603
Instrumented Dart Impact Total Energy, 23°C	11	J	ASTM D3763
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	12	kJ/m²	ISO 180/1A

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
THERMAL [1]			
HDT, 0.45 MPa, 3.2 mm, unannealed	118	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	88	°C	ASTM D648
CTE, -30°C to 30°C, flow	9.1E-05	1/°C	ASTM D696
CTE, -30°C to 30°C, xflow	1.29E-04	1/°C	ASTM D696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	114	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	85	°C	ISO 75/Af
PHYSICAL [1]			
Density	1.09	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.01	%	ASTM D570
Density	1.08	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
ELECTRICAL [1]			
Surface Resistivity [2]	1.E+02 – 1.E+05	Ω	ASTM D257
INJECTION MOLDING [3]			
Drying Temperature	80	°C	
Drying Time	4	Hrs	
Melt Temperature	230	°C	
Front - Zone 3 Temperature	220 – 230	°C	
Middle - Zone 2 Temperature	210 – 220	°C	
Rear - Zone 1 Temperature	195 – 205	°C	
Mold Temperature	40 – 55	°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) Measurement meets requirements as specified in ASTM D4496.

(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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