LNP™ STAT-KON™ COMPOUND FX98500C

PDX-F-98500
REGION ASIA

DESCRIPTION

LNP STAT-KON FX98500C is a compound based on Polyethylene resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20181031

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	23	MPa	ASTM D 638
Tensile Stress, break	13	MPa	ASTM D 638
Tensile Strain, yield	15.8	%	ASTM D 638
Tensile Strain, break	43.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	1070	MPa	ASTM D 638
Flexural Stress	26	MPa	ASTM D 790
Flexural Modulus	870	MPa	ASTM D 790
Tensile Stress, yield	23	MPa	ISO 527
Tensile Stress, break	14	MPa	ISO 527
Tensile Strain, yield	14	%	ISO 527
Tensile Strain, break	82.8	%	ISO 527
Tensile Modulus, 1 mm/min	870	MPa	ISO 527
Flexural Stress	27	MPa	ISO 178
Flexural Modulus	930	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
Izod Impact, notched, 23°C	48	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	21	J	ASTM D 3763
Multiaxial Impact	63	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	46	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	48	°C	ISO 75/Af
PHYSICAL			
Density	0.976	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2 – 4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2 – 4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2 – 4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2 – 4	%	ISO 294
Density	0.97	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
ELECTRICAL			
Volume Resistivity	100 – 100000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+02 – 1.E+05	Ohm	ASTM D 257
INJECTION MOLDING			
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	

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