LNP™ STAT-KON™ COMPOUND RD000

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DESCRIPTION

LNP STAT-KON* RD000 is a compound based on Nylon 66 resin containing Carbon Powder. Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	67	MPa	ASTM D 638
Tensile Strain, break	4.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	3170	MPa	ASTM D 638
Flexural Stress	95	MPa	ASTM D 790
Flexural Modulus	2750	MPa	ASTM D 790
Tensile Stress, break	64	MPa	ISO 527
Tensile Strain, break	7.6	%	ISO 527
Tensile Modulus, 1 mm/min	3100	MPa	ISO 527
Flexural Stress	96	MPa	ISO 178
Flexural Modulus	3000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	1068	J/m	ASTM D 4812
Izod Impact, notched, 23°C	106	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	9	J	ASTM D 3763
Multiaxial Impact	3	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	90	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	218	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	94	°C	ASTM D 648
CTE, -40°C to 40°C, flow	7.92E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	8.1E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.97E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.1E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	77	°C	ISO 75/Af
PHYSICAL			
Density	1.19	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.54	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	2.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	2.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	2.65	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	2.44	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.96	%	ISO 62
ELECTRICAL			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.15 – 0.25	%	
Melt Temperature	280 – 305	°C	
Front - Zone 3 Temperature	295 – 305	°C	
Middle - Zone 2 Temperature	280 – 295	°C	
Rear - Zone 1 Temperature	265 – 275	°C	
Mold Temperature	95 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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