LNP™ STAT-KON™ COMPOUND KD000

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REGION ASIA

DESCRIPTION

LNP STAT-KON KD000 is a compound based on Acetal resin containing Proprietary Filler(s). Added feature of this material is: Electrically Conductive.

TYPICAL PROPERTY VALUES

Revision 20190611

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	58	MPa	ASTM D 638
Tensile Stress, break	54	MPa	ASTM D 638
Tensile Strain, yield	3.6	%	ASTM D 638
Tensile Strain, break	7.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	3500	MPa	ASTM D 638
Flexural Stress	95	MPa	ASTM D 790
Flexural Modulus	3250	MPa	ASTM D 790
Tensile Stress, yield	53	MPa	ISO 527
Tensile Stress, break	47	MPa	ISO 527
Tensile Strain, yield	5	%	ISO 527
Tensile Strain, break	20	%	ISO 527
Tensile Modulus, 1 mm/min	3000	MPa	ISO 527
Flexural Stress	82	MPa	ISO 178
Flexural Modulus	3200	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	800	J/m	ASTM D 4812
Izod Impact, notched, 23°C	35	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	37	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	108	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.01E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.01E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	1.02E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	1.01E-04	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	105	°C	ISO 75/Af
PHYSICAL			
Density	1.45	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.28	%	ASTM D 570
Mold shrinkage, flow (mold temp=60°C)	1.2 – 1.3	%	SABIC method
Mold shrinkage, flow (mold temp=100°C)	1.5 – 1.6	%	SABIC method

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	1.5 – 3.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.5 – 3.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	1.5 – 3.5	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	1.5 – 3.5	%	ISO 294
Mold shrinkage, xflow (mold temp=60°C)	0.9 – 1	%	SABIC method
Mold shrinkage, xflow (mold temp=100°C)	1.1 – 1.2	%	SABIC method
Density	1.45	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.33	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+04	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101343865	-	-
UL Yellow Card Link 2	E207780-102991911	-	-
UL Recognized, 94HB Flame Class Rating	0.7	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80	°C	
Drying Time	4	hrs	
Melt Temperature	190 – 215	°C	
Front - Zone 3 Temperature	200 – 220	°C	
Middle - Zone 2 Temperature	190 – 200	°C	
Rear - Zone 1 Temperature	180 – 190	°C	
Mold Temperature	60 – 110	°C	
Back Pressure	0.2 – 0.4	MPa	
Screw Speed	30 – 60	rpm	

(1) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

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