LNP™ STAT-KON™ COMPOUND DD0009P

D-EP V-1
REGION ASIA

DESCRIPTION

LNP STAT-KON* DD0009P is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Exceptional Processing, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	64	MPa	ASTM D 638
Tensile Stress, break	54	MPa	ASTM D 638
Tensile Strain, yield	4.8	%	ASTM D 638
Tensile Strain, break	10	%	ASTM D 638
Tensile Modulus, 50 mm/min	2620	MPa	ASTM D 638
Flexural Stress	102	MPa	ASTM D 790
Flexural Modulus	2820	MPa	ASTM D 790
Tensile Stress, yield	59	MPa	ISO 527
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, yield	4.4	%	ISO 527
Tensile Strain, break	9.5	%	ISO 527
Tensile Modulus, 1 mm/min	2800	MPa	ISO 527
Flexural Stress	102	MPa	ISO 178
Flexural Modulus	3000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2093	J/m	ASTM D 4812
Izod Impact, notched, 23°C	114	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	12	J	ASTM D 3763
Multiaxial Impact	35	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	134	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	130	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	128	°C	ISO 75/Af
Relative Temp Index, Elec [1]	80	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	80	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	80	°C	UL 746B
PHYSICAL			
Density	1.29	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.13	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.8	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.8	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Mold Shrinkage, flow, 24 hrs	0.78	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.8	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.23	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+02 – 1.E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-101345222	-	-
UL Recognized, 94V-0 Flame Class Rating	≥3	mm	UL 94
UL Recognized, 94V-1 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	48	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	270 – 295	°C	
Nozzle Temperature	265 – 290	°C	
Front - Zone 3 Temperature	270 – 295	°C	
Middle - Zone 2 Temperature	260 – 280	°C	
Rear - Zone 1 Temperature	250 – 270	°C	
Mold Temperature	70 – 95	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

(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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