LNP™ STAT-KON™ COMPOUND DD0009PC

D-EP V-1 HP
REGION ASIA

DESCRIPTION

LNP STAT-KON* DD0009PC is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20190731

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	60	MPa	ASTM D 638
Tensile Stress, break	50	MPa	ASTM D 638
Tensile Strain, yield	4.9	%	ASTM D 638
Tensile Strain, break	10.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	2640	MPa	ASTM D 638
Flexural Stress	95	MPa	ASTM D 790
Flexural Modulus	2570	MPa	ASTM D 790
Tensile Stress, yield	55	MPa	ISO 527
Tensile Stress, break	46	MPa	ISO 527
Tensile Strain, yield	4.7	%	ISO 527
Tensile Strain, break	11.3	%	ISO 527
Tensile Modulus, 1 mm/min	2610	MPa	ISO 527
Flexural Stress	95	MPa	ISO 178
Flexural Modulus	2610	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2160	J/m	ASTM D 4812
Izod Impact, notched, 23°C	279	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	37	J	ASTM D 3763
Multiaxial Impact	65	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	131	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	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	127	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	126	°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	1.31	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.17	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.66	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.55	%	ASTM D 955

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62
ELECTRICAL			
Surface Resistivity	6.5E+10	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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