

LNPTM STAT-KONTM COMPOUND DD0009PC

D-EP V-1 HP

DESCRIPTION

LNP STAT-KON DD0009PC compound is based on Polycarbonate (PC) resin containing conductive carbon powder. Added features of this grade include: Electrically Conductive, Exceptional Processing, Flame Retardant.

GENERAL INFORMATION	
Features	Flame Retardant, Electrically Conductive, High Flow, No PFAS intentionally added
Fillers	Carbon Powder
Polymer Types	Polycarbonate (PC)
Processing Techniques	Injection Molding
INDUSTRY	SUB INDUSTRY
Electrical and Electronics	Electronic Components
Industrial	Material Handling

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL (1)			
Tensile Stress, yield	61	MPa	ASTM D638
Tensile Stress, break	53	MPa	ASTM D638
Tensile Strain, yield	4.9	%	ASTM D638
Tensile Strain, break	11	%	ASTM D638
Tensile Modulus, 50 mm/min	2620	MPa	ASTM D638
Flexural Stress	101	MPa	ASTM D790
Flexural Modulus	2820	MPa	ASTM D790
Tensile Stress, yield	59	MPa	ISO 527
Tensile Stress, break	51	MPa	ISO 527
Tensile Strain, yield	4.6	%	ISO 527
Tensile Strain, break	11	%	ISO 527
Tensile Modulus, 1 mm/min	2700	MPa	ISO 527
Flexural Stress	98	MPa	ISO 178
Flexural Modulus	2900	MPa	ISO 178
IMPACT (1)			
Izod Impact, unnotched, 23°C	2100	J/m	ASTM D4812
Izod Impact, notched, 23°C	119	J/m	ASTM D256
Instrumented Dart Impact Energy @ peak, 23°C	15	J	ASTM D3763
Multiaxial Impact	35	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	11	kJ/m²	ISO 180/1A
THERMAL (1)			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D648
HDT, 1.82 MPa, 3.2mm, unannealed	128	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	130	°C	ISO 75/Af
Relative Temp Index, Elec ⁽²⁾	80	°C	UL 746B
Relative Temp Index, Mech w/impact (2)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (2)	80	°C	UL 746B
PHYSICAL (1)			
Density	1.29	g/cm³	ASTM D792
Moisture Absorption, (23°C/50% RH/24 hrs)	0.14	%	ASTM D570
Mold Shrinkage, flow, 24 hrs ⁽³⁾	0.8	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	0.8	%	ASTM D955
Mold Shrinkage, flow, 24 hrs ⁽³⁾	0.77	%	ISO 294
Mold Shrinkage, xflow, 24 hrs ⁽³⁾	0.79	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.23	%	ISO 62
ELECTRICAL (1)			
Surface Resistivity (4)	1.E+02 – 1.E+06	Ω	ASTM D257
FLAME CHARACTERISTICS (2)			
UL Yellow Card Link	E121562-101345260	-	
UL Yellow Card Link UL Yellow Card Link 2	E121562-101345260 E207780-101345222	-	
		- - mm	- - UL 94
UL Yellow Card Link 2	E207780-101345222	- mm mm	- - UL 94 UL 94
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating	E207780-101345222 ≥3		
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating	E207780-101345222 ≥3		
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5)	E207780-101345222 ≥3 ≥1.5	mm	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature	E207780-101345222 ≥3 ≥1.5	mm °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time	E207780-101345222 ≥3 ≥1.5	mm °C Hrs	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative)	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8	mm °C Hrs	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02	mm °C Hrs Hrs °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295	mm °C Hrs Hrs % °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270	mm °C Hrs Hrs % °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature Middle - Zone 2 Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270 260 - 280	mm °C Hrs Hrs % °C °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature Middle - Zone 2 Temperature Front - Zone 3 Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270 260 - 280 270 - 295 265 - 290 70 - 95	mm °C Hrs Hrs % °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature Middle - Zone 2 Temperature Front - Zone 3 Temperature Nozzle Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270 260 - 280 270 - 295 265 - 290	mm °C Hrs Hrs % °C °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature Middle - Zone 2 Temperature Front - Zone 3 Temperature Mozzle Temperature Mold Temperature	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270 260 - 280 270 - 295 265 - 290 70 - 95 0.2 - 0.3 30 - 60	mm °C Hrs Hrs % °C °C °C °C °C	
UL Yellow Card Link 2 UL Recognized, 94V-0 Flame Class Rating UL Recognized, 94V-1 Flame Class Rating INJECTION MOLDING (5) Drying Temperature Drying Time Drying Time (Cumulative) Maximum Moisture Content Melt Temperature Rear - Zone 1 Temperature Middle - Zone 2 Temperature Front - Zone 3 Temperature Nozzle Temperature Mold Temperature Back Pressure	E207780-101345222 ≥3 ≥1.5 120 3 - 4 8 0.02 270 - 295 250 - 270 260 - 280 270 - 295 265 - 290 70 - 95 0.2 - 0.3	mm °C Hrs Hrs % °C °C °C °C °C MPa	

⁽¹⁾ The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

⁽²⁾ 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.

⁽³⁾ Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

⁽⁴⁾ Measurement meets requirements as specified in ASTM D4496.

⁽⁵⁾ Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.



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