LNP™ STAT-KON™ COMPOUND DX09301C

DESCRIPTION

Low Ionic, Low Outgassing, Low LPC and ESD safe Polycarbonate compound suitable for Semiconductor and Hard Disk Drive (HDD) application.Added features of this material include: Clean Compounding System.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	64	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	51	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	15	%	ASTM D 638
Tensile Modulus, 50 mm/min	2670	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	101	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2600	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	66	MPa	ISO 527
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.1	%	ISO 527
Tensile Strain, break, 5 mm/min	12	%	ISO 527
Tensile Modulus, 1 mm/min	2600	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	99	MPa	ISO 178
Flexural Modulus, 2 mm/min	2560	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	2160	J/m	ASTM D 4812
Izod Impact, notched, 23°C	52	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	8	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	200	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	4	kJ/m²	ISO 180/1A
THERMAL			
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
HDT, 1.82 MPa, 3.2mm, unannealed	126	°C	ASTM D 648
PHYSICAL			
Density	1.224	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5 – 0.7	%	ASTM D 955
Density	1.22	g/cm³	ISO 1183
ELECTRICAL			
Volume Resistivity	1000 – 10000000	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+03 – 1.E+07	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.1	< seconds	FTMS101B
FLAME CHARACTERISTICS [1]			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Yellow Card Link	E207780-101343769	-	-
UL Recognized, 94HB Flame Class Rating	≥1	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	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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