LNP™ STAT-LOY™ COMPOUND 63000CT

DESCRIPTION

A permanent antistatic PC-Alloy compound that features transparency and superior cleanliness for advanced semiconductor packaging applications

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	35	MPa	ASTM D 638
Tensile Strain, brk, Type I, 10 mm/min	200	%	SABIC - Japan Method
Tensile Modulus, 50 mm/min	1160	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	50	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1160	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	34	MPa	ISO 527
Tensile Strain, break, 5 mm/min	140	%	ISO 527
Tensile Modulus, 1 mm/min	1180	MPa	ISO 527
Flexural Modulus, 2 mm/min	1140	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	580	J/m	ASTM D 256
Charpy Impact, notched, 23°C	69	kJ/m²	ISO 179/2C
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	83	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	73	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	68	°C	ISO 75/Af
PHYSICAL			
Density	1.16	g/cm³	ASTM D 792
Mold Shrinkage, flow	0.6	%	SABIC method
Mold Shrinkage, xflow	0.6	%	SABIC method
Melt Flow Rate, 260°C/2.16 kgf	16	g/10 min	ASTM D 1238
Moisture Absorption (23°C / 50% RH)	0.7	%	ISO 62
OPTICAL			
Light Transmission, 2.54 mm	81	%	ASTM D 1003
Haze, 2.54 mm	10	%	ASTM D 1003
ELECTRICAL			
Volume Resistivity	1.E+11 - 5.E+12	Ohm-cm	ASTM D 257
Surface Resistivity	1.E+11 - 5.E+12	Ohm	ASTM D 257
Static Decay, 5000V to <50V	2	< seconds	FTMS101B
INJECTION MOLDING			
Drying Temperature	90 – 95	°C	
Drying Time	6 – 8	hrs	
Melt Temperature	230 – 250	°C	
Nozzle Temperature	230 – 250	°C	
Front - Zone 3 Temperature	230 – 250	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Middle - Zone 2 Temperature	225 – 240	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	40 – 50	°C	

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