LNP™ STAT-LOY™ COMPOUND 63000CTC

DESCRIPTION

A permanent antistatic PC-Alloy compound that features transparency and superior cleanliness for advanced semiconductor packaging applications(Light Transmission and Haze are representative data for nature color).

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	1170	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	52	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1170	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	1190	MPa	ISO 527
Flexural Modulus, 2 mm/min	1150	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	84	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	75	°C	ASTM D 648
CTE, 23°C to 60°C, flow	1.2E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.4E-04	1/°C	ISO 11359-2
PHYSICAL			
Density	1.16	g/cm³	ASTM D 792
Mold Shrinkage, flow	0.6	%	SABIC method
Mold Shrinkage, xflow	0.6	%	SABIC method
Moisture Absorption (23°C / 50% RH)	0.7	%	ISO 62
OPTICAL			
Light Transmission, 2.54 mm	77	%	ASTM D 1003
Haze, 2.54 mm	25	%	ASTM D 1003
ELECTRICAL			
Volume Resistivity	8000000000 – 300000000000	Ohm-cm	ASTM D 257
Surface Resistivity	9.E+09 – 4.E+11	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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