LNP™ STAT-LOY™ COMPOUND 63000CTU

DESCRIPTION

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

TYPICAL PROPERTY VALUES

Revision 20191212

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	36	MPa	ASTM D 638
Tensile Strain, break	200	%	ASTM D 638
Tensile Modulus, 50 mm/min	1160	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	53	MPa	ASTM D 790
Flexural Modulus	1210	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	500	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	74	°C	ASTM D 648
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	19	g/10 min	ASTM D 1238
Moisture Absorption (23°C / 50% RH)	0.7	%	ISO 62
OPTICAL			
Light Transmission at 3.0 mm	35	%	SABIC method
Haze, 2.54 mm	10	%	ASTM D 1003
ELECTRICAL			
Volume Resistivity	100000000000 – 5000000000000	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
Volume Resistivity	0.E+00	Ohm-cm	IEC 60093
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	
Middle - Zone 2 Temperature	225 – 240	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	40 – 50	°C	

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