

ESD Test Method and Results

ES 300 Black Polycarbonate

September 14, 2000

Method

As tested and recorded, black polycarbonate material used in Pozzetta PL500, PL535 PL600, and PL655 photomask boxes.

Six sample boxes, chosen at random from production run, were tested. The sample boxes were isolated using ceramic as the surface on which samples were laid. The surface resistivity reading was taken with the resistivity/resistance meter in direct contact with the sample. Static surface charge reading was taken with the static field meter at the proper, uniform distance above each sample as prescribed by the meter's indicator light.

Each sample was charged, after initial readings, by the identical pattern of passing a vinyl glove repeatedly over the sample, with the glove dragging across the sample. The static surface charge reading was recorded at intervals, after charging, immediately, 10 minutes, 20 minutes, and 90 minutes.

Static Surface Charge (KV)

Sample	Reference	Immediately After Charge	10 Minutes After Charge	20 Minutes After Charge	90 Minutes After Charge
1	.05	.08	.05	In this case, no static surface charge readings were taken beyond 10 minutes. Not considered necessary.	
2	.06	.10	.08		
3	.06	.18	.10		
4	.05	.14	.08		
5	.06	.17	.09		
6	.06	.11	.07		

Surface Resistivity reference reading for all 6 samples was 1.000E+5 ohms/sq.

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