

ESD Test Method and Results

ES 399 Black Polycarbonate, Carbon Filled

November 8, 2001

Method

As tested and recorded, black polycarbonate material used in Pozzetta PLS600 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	.01	.26	.09	.08	.04
2	.02	.22	.08	.05	.04
3	.05	.18	.10	.08	.04
4	.07	.23	.09	.08	.02
5	.03	.22	.06	.06	.01
6	.03	.18	.03	.03	.01

Surface Resistivity reference reading for all 6 samples was 1.000E+4 to 1.000E+5 ohms/sq.

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CARBON FILLED