Date:

Aim: **Quantitate resistivity of LiqPS-PANI at multiple concentrations of PANI at various voltages**

Sample	Voltage	PANI	Resistance	Sample	Voltage	PANI	Resistance	Sample	Voltage	PANI	Resistance	Mean	Sample SA	Sample Length	Resistivity	Conductivity
	(V)	(%)	(kOhms)		(V)	(%)	(kOhms)		(V)	(%)	(kOhms)		(cm2)	(cm)	(Ohm cm)	(S/cm)
1	250	+ Control (pads)	0	2	250	+ Control (pads)	0	3	250	+ Control (pads)	0	0	2.8274334	0.02	0	#DIV/0!
1	500	+ Control (pads)	0	2	500	+ Control (pads)	0	3	500	+ Control (pads)	0	0	2.8274334	0.02	0	#DIV/0!
1	1000	+ Control (pads)	0	2	1000	+ Control (pads)	0	3	1000	+ Control (pads)	0	0	2.8274334	0.02	0	#DIV/0!
1	2500	+ Control (pads)	0	2	2500	+ Control (pads)	0	3	2500	+ Control (pads)	0	0	2.8274334	0.02	0	#DIV/0!
1	5000	+ Control (pads)	0	2	5000	+ Control (pads)	0	3	5000	+ Control (pads)	0	0	2.8274334	0.02	0	#DIV/0!
1	250	- Control (acrylate)	1.00E+99	2	250	- Control (acrylate)	1.00E+99	3	250	- Control (acrylate)	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	500	- Control (acrylate)	1.00E+99	2	500	- Control (acrylate)	1.00E+99	3	500	- Control (acrylate)	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	1000	- Control (acrylate)	1.00E+99	2	1000	- Control (acrylate)	1.00E+99	3	1000	- Control (acrylate)	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	2500	- Control (acrylate)	1.00E+99	2	2500	- Control (acrylate)	1.00E+99	3	2500	- Control (acrylate)	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	5000	- Control (acrylate)	1.00E+99	2	5000	- Control (acrylate)	1.00E+99	3	5000	- Control (acrylate)	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	250	30	10000	2	250	30	10000	3	250	30	10000	10000	2.8274334	0.075	376991.12	2.653E-06
1	500	30	10000	2	500	30	10000	3	500	30	10000	10000	2.8274334	0.075	376991.12	2.653E-06
1	1000	30	10000	2	1000	30	10000	3	1000	30	10000	10000	2.8274334	0.075	376991.12	2.653E-06
1	2500	30	10000	2	2500	30	10000	3	2500	30	10000	10000	2.8274334	0.075	376991.12	2.653E-06
1	5000	30	10000	2	5000	30	10000	3	5000	30	10000	10000	2.8274334	0.075	376991.12	2.653E-06
1	250	10	130000	2	250	10	200000	3	250	10	220000	183333.33	2.8274334	0.03	17278760	5.787E-08
1	500	10	130000	2	500	10	190000	3	500	10	210000	176666.67	2.8274334	0.03	16650441	6.006E-08
1	1000	10	50000	2	1000	10	80000	3	1000	10	100000	76666.667	2.8274334	0.03	7225663.1	1.384E-07
1	2500	10	50000	2	2500	10	90000	3	2500	10	110000	83333.333	2.8274334	0.03	7853981.6	1.273E-07
1	5000	10	50000	2	5000	10	90000	3	5000	10	110000	83333.333	2.8274334	0.03	7853981.6	1.273E-07
1	250	1	7600000	2	250	3	26900000	3	250	3		17250000	2.8274334	0.02	2.439E+09	4.101E-10
1	500	1	2790000	2	500	3	53800000	3	500	3		28295000	2.8274334	0.02	4E+09	2.5E-10
1	1000	1	960000	2	1000	3	4800000	3	1000	3		2880000	2.8274334	0.02	407150408	2.456E-09
1	2500	1		2	2500	3	730000	3	2500	3		730000	2.8274334	0.02	103201319	9.69E-09
1	5000	1		2	5000	3		3	5000	3			2.8274334	0.02	0	#DIV/0!
1	250	0	1.00E+99	2	250	0	1.00E+99	3	250	0	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	500	0	1.00E+99	2	500	0	1.00E+99	3	500	0	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	1000	0	1.00E+99	2	1000	0	1.00E+99	3	1000	0	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	2500	0	1.00E+99	2	2500	0	1.00E+99	3	2500	0	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102
1	5000	0	1.00E+99	2	5000	0	1.00E+99	3	5000	0	1.00E+99	1E+99	2.8274334	0.02	1.41E+101	7.07E-102

1.00E-06 7.85E+00

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