

Date:

Aim: Quantitate resistivity of PS-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	20000	2	250	30	20000	3	250	30	20000	20000	2.8274334	0.06	942477.8	1.061E-06
1	500	30	30000	2	500	30	20000	3	500	30	20000	23333.333	2.8274334	0.06	1099557.4	9.095E-07
1	1000	30	10000	2	1000	30	10000	3	1000	30	10000	10000	2.8274334	0.06	471238.9	2.122E-06
1	2500	30	10000	2	2500	30	10000	3	2500	30	10000	10000	2.8274334	0.06	471238.9	2.122E-06
1	5000	30	10000	2	5000	30	10000	3	5000	30	10000	10000	2.8274334	0.06	471238.9	2.122E-06
1	250	10	8360000	2	250	10	66600000	3	250	10	ND	37480000	2.8274334	0.05	2.119E+09	4.718E-10
1	500	10	5550000	2	500	10	55000000	3	500	10	ND	30275000	2.8274334	0.05	1.712E+09	5.841E-10
1	1000	10	5500000	2	1000	10	6860000	3	1000	10	ND	6180000	2.8274334	0.05	349470767	2.861E-09
1	2500	10	670000	2	2500	10	380000	3	2500	10	ND	525000	2.8274334	0.05	29688051	3.368E-08
1	5000	10	380000	2	5000	10	340000	3	5000	10	ND	360000	2.8274334	0.05	20357520	4.912E-08
1	250	3	72100000	2	250	3	632000000	3	250	3	126300000	276800000	2.8274334	0.03	2.609E+10	3.833E-11
1	500	3	3040000	2	500	3	483000000	3	500	3	223000000	236346667	2.8274334	0.03	2.228E+10	4.489E-11
1	1000	3	3000000	2	1000	3	20800000	3	1000	3	2460000	8753333.3	2.8274334	0.03	824982231	1.212E-09
1	2500	3	600000	2	2500	3	670000	3	2500	3	890000	720000	2.8274334	0.03	67858401	1.474E-08
1	5000	3	ND	2	5000	3	450000	3	5000	3	ND	450000	2.8274334	0.03	42411501	2.358E-08
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