

Piezoelectricity Testing Capability Overview

Piezoelectricity		Capability Description	Solvay Labs
Electrical Poling	Electrode Preparation	- Printable Area * Substrate < 0.5 mm thickness: 210 mm x 315 mm * Substrate 0.5 ~ 25 mm thickness: 210 mm x 260 mm * 300 ~ 600 nm electrode thickness per layer - Commercially available Inkjettable silver inks * Sun chemical Suntronic * Genes'ink Nano silver Ink * Hareus Pedot PSS HC * Agfa Pedot PSS	R&I Bollate
	Contact Poling	- Contact poling voltage: up to 10 kV - Contact poling frequency: DC to 5 kHz, existing experience at DC - Poling temperature: room temperature - Poling chamber electrodes: 1 ~ 8 cm in diameter	R&I Bollate
	Corona Poling	- Corona poling voltage: up to 30 kV - Corona poling frequency: DC - Poling temperature: room temperature (high temperature under development) - Poling area: TBD	ADL Alpharetta
Piezoelectric Coefficient Characterization	d33	d33 Measurement of Polymer Films - 0~10, 0~100, 10~1,000, 100~ 10,000 pC/N	R&I Bollate
		d33 Measurement of Polymer Films with control of static force - 1~200, 1~2,000 pC/N - static force 0~10 N	ADL Alpharetta
	d31	d31 Measurement of Polymer Films (under development)	ADL Alpharetta