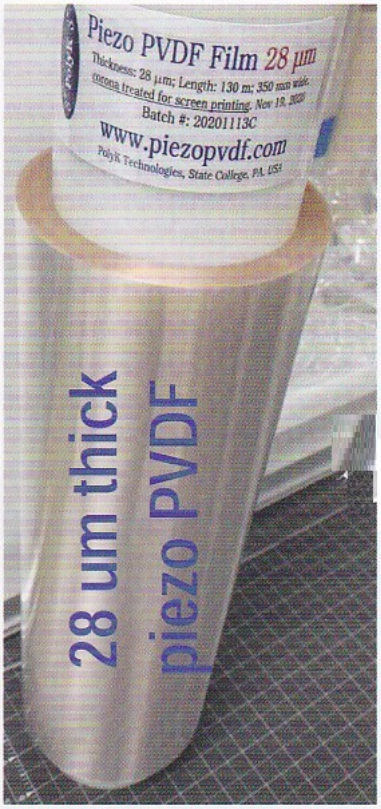
Piezoelectric PVDF Film

δ+ PolyK δ−

www.piezopvdf.com/piezo-pvdf-film/

1. Roll-to-Roll production of piezo PVDF film from 7 μm to 200 μm: consistent quality.
2. Thickness in stock for immediate shipping: 12 μm, 28 μm, 40 μm, 50 μm, 80 μm,110 μm and 200 μm in large rolls of 100 m to 500 m for sensor manufacturer.
3. Special thickness with short lead time.
4. Customized processing temperature: 55 °C, 85 °C, 100 °C, 125 °C, and 160 °C.

Properties	PVDF	Unit
Piezo Strain Constant	25~35	d_{31} (pC/N)
	-20~-35	d_{33} (pC/N)
Piezo Stress Constant	~350	g_{31} (10^{-3}Vm/N)
	-330~-350	g_{33} (10^{-3}Vm/N)
Dielectric Constant	~13	ε_r
Pyroelectric Coefficient	26~30	ρ (10^{-6} C/m^{2}K)
Electromechanical Coupling Factor	10~13	k_{31} (%)
	12~15	k_t (%)
Maximum Voltage	>100	E (V/μm)
Mechanical Properties		**Unit**
Tensile strength	0.4~0.6	σ_{MD}(10^9N/m^2)
	0.05~0.06	σ_{TD}(10^9N/m^2)
Young's Modulus	2.3~2.8	Y_{MD}(10^9N/m^2)
	2.0~2.5	Y_{TD}(10^9N/m^2)
Elongation at Break	20~30	ε_{MD}(%)
	5~7	ε_{TD}(%)



Roll-to-Roll Manufacturing Piezo PVDF film in Central Pennsylvania, USA

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