

Compo-SiL[®] E Series is a durable and stable capacitive or conductive thin film, which is a silicone-PU composite roll-to-roll product. Its soft and stretchable characteristics are vital for elongation detecting through the capacitance or resistance changes, therefore could be used for monitoring physical motion of humans or robots.

Features

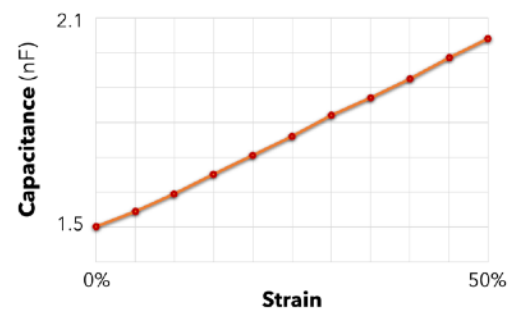
- Roll-to-roll composite materials
- Super thin, soft and elastic
- Spectacular durability for long-term monitoring
- Ultra-low hysteresis

Applications

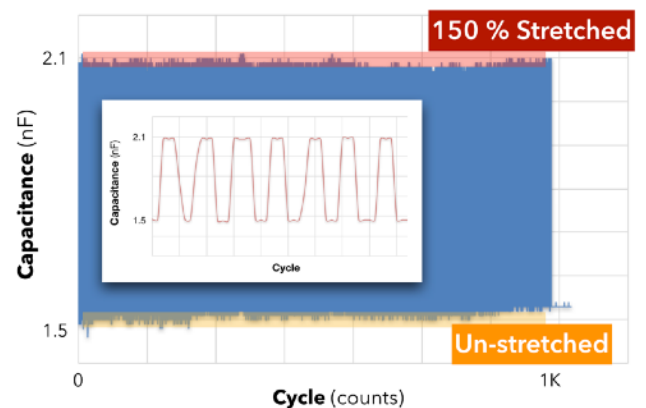
- Consumer products
- Medical/healthcare
- Automotive industry

Thickness	0.3~0.5	mm
Volume resistivity of silicone (ρ)	0.02~0.03	$\Omega \cdot \text{cm}$
Relative permittivity (ϵ_r)	~7.01	
Elongation	0~150	%

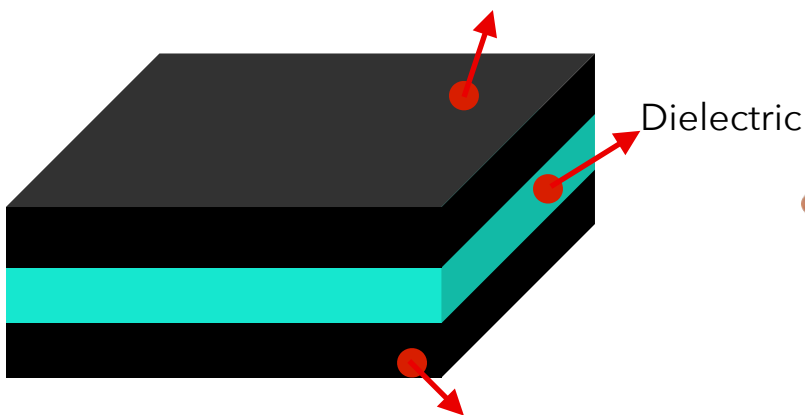
✓ Great linear relation between strain and capacitance



✓ Great consistency of capacitance change



Conductive silicone electrode



Conductive silicone electrode

✓ Gesture sensor application

