

### Product Description

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**Electrospun PVDF-HFP** is an ultrafine mat of poly(vinylidene fluoride-co-hexafluoropropylene) produced by electrospinning. This product is a free standing flexible sheet with microstructural features not available from a bulk material. The fine scale of fiber diameters produces a membrane material with an inherently high surface area to volume ratio. The interconnected irregular shape pores within the fibers largely increases the pore volume (porosity) and accessible surface area. The membrane has a typical thickness of 1 mil (25 microns) and the thickness can easily be adjusted as per customer's specifications. The diameter of the nanofiber can also be adjusted. Electrospun PVDF-HFP can be used as membrane distillation materials, tissue scaffolds, and separators for lithium ion batteries. Due to its piezoelectric properties, electrospun PVDF-HFP also finds applications in energy harvesting, biosensors, audio devices, and transducers.

### Typical Properties

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**Color:** White

**Size:** 11 x 8"

**Typical Thickness:** 1 mil (25 microns)

**Typical Fiber Diameter:** 100 – 500 nm

**Areal Density:**  $7 \times 10^{-4} \text{ g/cm}^2$