

## 12 $\mu$ m ZIF-8 MOF-Functionalized PE

Catlog Number: BMSM-0064

### • Description

Metal-Organic Framework (MOF) coating regulates ion flux and eliminates concentration gradients to effectively suppress dendrite growth.

### • Basic Information

Base Material: UHMWPE

Coating Type: ZIF-8 Nanocrystal

Thickness ( $\mu$ m): 12

Porosity (%): 41

Gurley Value (s/100mL): 245

Puncture Strength (gf): 325

Tensile MD (kg/cm<sup>2</sup>): 1550

Tensile TD (kg/cm<sup>2</sup>): 1350

Elongation MD (%): 60

Elongation TD (%): 220

Shrinkage MD (120°C): < 1.2%

Shrinkage TD (120°C): < 0.6%

Melt Temp (°C): 140

Shutdown Temp (°C): 132

Dielectric (V/ $\mu$ m): 250

Wettability: Superior

Ionic Cond. (mS/cm): 0.92


Water (ppm): < 180

Basis Weight (g/m<sup>2</sup>): 10.4

Pore Size ( $\mu$ m): 0.025

Appearance: Off-White

Packaging: Roll

 For Research or Industrial Raw Materials, Not For Personal Medical Use!