

Ultra-Thin 3um PET-Copper Composite

Catlog Number: BMBCC-0058

• Description

Polymer-metal composite foil for ultra-lightweight batteries, reducing the dead weight of the current collector by up to 80%.

• Basic Information

Substrate Material: PET/Copper

Purity (%): Cu: 30% Vol

Thickness (μm): 3

Width (mm): 280

Areal Density (g/m^2): 12.0 - 14.0

Tensile Strength (MPa): ≥ 130

Elongation (%): ≥ 1.0

Surface Finish: Laminated

Surface Roughness (R_a , μm): ≤ 0.15

Electrical Resistivity ($\Omega\cdot\text{m}$): 2.5×10^{-8}

Thermal Conductivity ($\text{W}/\text{m}\cdot\text{K}$): 1.5

Melting Point ($^{\circ}\text{C}$): 260 (PET)

Oxidation Resistance (Temp/Time): 100°C / 30min

Coating Type: N/A

Coating Thickness (μm): N/A

Core ID (mm): 76

Standard Length (m): 1000

Operating Voltage Range (V): 0.0 - 2.0

Application Compatibility: Mobile Energy

Storage Requirements: Cool / Dry

Form Factor: Roll

Hydrophilic Properties: Ultra-Lightweight

Compliance / Grade: Battery Grade

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