Eata Battery

20µm Nylon 6.6 Hybrid Scaffold

Catlog Number: BMSM-0069

Description

3D nylon mesh scaffold infiltrated with solid-electrolyte particles, creating a fast-conducting hybrid separator for solid-state research.

Basic Information

Base Material: Polyamide 6.6

Coating Type: Wet Infiltrated

Thickness (µm): 20

Porosity (%): 55

Gurley Value (s/100mL): 145

Puncture Strength (gf): 410

Tensile MD (kg/cm²): 1150

Tensile TD (kg/cm²): 1080

Elongation MD (%): 35

Elongation TD (%): 32

Shrinkage MD (120°C): < 0.5%

Shrinkage TD (120°C): < 0.2%

Melt Temp (°C): 260

Shutdown Temp (°C): N/A

Dielectric (V/µm): 195

Wettability: Superior

Ionic Cond. (mS/cm): 1.45

Water (ppm): < 200

Basis Weight (g/m²): 14.8

Pore Size (µm): 0.45

Appearance: White

Packaging: Roll

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

Eata Battery delivers the world's battery makers a single, reliable source for every high-performance raw material—cathode to collector, catalyst to membrane—so you can design, scale and ship next-generation batteries faster.

Tel: 1-631-637-0420 | 1-631-533-0595
Email: info@eataray.com
Suite 103, 17 Ramsey Road, Shirley, NY 11967, USA