Eata Battery

Oxidatively Stable Conductive Polymer

Catlog Number: BMBB-0032

Description

A conjugated polymer binder that provides both electronic pathways and mechanical cohesion for high-voltage (5V) cathode systems.

Basic Information

Appearance: Dark Blue Solution

Solid Content (%): 5-8

Viscosity (mPa·s): 500 - 1500

pH Value: 2.0 - 4.0

Density (g/cm³): 1.02 - 1.05

Purity (%): ≥ 97.0

Moisture Content (%): 92 (Water)

Melting Point (°C): N/A

Decomposition Temp (°C): > 280

Molecular Weight (Mw): 100,000 - 250,000

Particle Size D50 (μm): 0.05 - 0.15

Tensile Strength (MPa): 15 - 25

Elongation at Break (%): 10-30

Peel Strength (N/m): ≥ 12

Glass Transition Temp (°C): 180

Solvent Type: Water

Application Type: High Voltage Cathode

Active Material Compatibility: LNMO, High-Ni NMC

Coating Thickness (μm): 5-30

Drying Condition: 120°C / 4h

Swelling Ratio (%): < 8

Ion Conductivity: Very High

Electrochemical Window (V): 0.0 - 5.2

Storage Life (Months): 6

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