

Rigid Aromatic Polyamide Binder

Catlog Number: BMBB-0030

• Description

A high-modulus binder for high-voltage and high-temperature batteries, preventing active material detachment under extreme stress.

• Basic Information

Appearance: Yellowish Powder

Solid Content (%): ≥ 98

Viscosity (mPa·s): 4000 - 8000

pH Value: 5.0 - 7.0

Density (g/cm³): 1.35 - 1.45

Purity (%): ≥ 99.0

Moisture Content (%): ≤ 0.2

Melting Point (°C): 280 - 300

Decomposition Temp (°C): > 450

Molecular Weight (Mw): 100,000 - 200,000

Particle Size D50 (μm): 1.0 - 5.0

Tensile Strength (MPa): 90 - 140

Elongation at Break (%): 5-15

Peel Strength (N/m): ≥ 32

Glass Transition Temp (°C): 220

Solvent Type: NMP/DMAc

Application Type: High Voltage Cathode

Active Material Compatibility: LMNO, High-Ni NCM

Coating Thickness (μm): 10 - 50

Drying Condition: 180°C / 4h

Swelling Ratio (%): < 3

Ion Conductivity: Low

Electrochemical Window (V): 0.0 - 5.1

Storage Life (Months): 24

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