

Modified Polyimide (PI) Binder

Catlog Number: **BMBB-0015**

• Description

A high-tensile strength aromatic polymer binder for high-voltage systems requiring extreme oxidative resistance and thermal robustness.

• Basic Information

Appearance: Dark Amber Liquid

Solid Content (%): 12-18

Viscosity (mPa·s): 3000 - 7000

pH Value: 4.0 - 6.0

Density (g/cm³): 1.15 - 1.25

Purity (%): ≥ 98.5

Moisture Content (%): 85 (NMP)

Melting Point (°C): N/A

Decomposition Temp (°C): > 500

Molecular Weight (Mw): 150,000 - 300,000

Particle Size D50 (µm): N/A

Tensile Strength (MPa): 120 - 180

Elongation at Break (%): 10-30

Peel Strength (N/m): ≥ 35

Glass Transition Temp (°C): 280

Solvent Type: NMP

Application Type: High Voltage Cathode

Active Material Compatibility: LMNO, NCM 811

Coating Thickness (µm): 5 - 40

Drying Condition: 250°C / 2h

Swelling Ratio (%): < 2

Ion Conductivity: Low

Electrochemical Window (V): 0.0 - 5.2

Storage Life (Months): 12

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