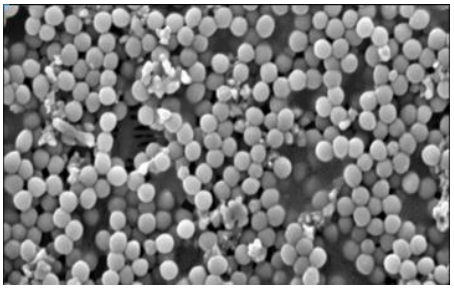
Celgard® QT17P2HX

Super Thin-Adhesive Coated Microporous Trilayer Membrane

Product Name & Description

Celgard® QT17P2HX
16.5[1] µm Two-Sided Super Thin-Adhesive Coated Microporous Trilayer Membrane (PP/PE/PP)

[1] *Average as-coated thickness, 16 µm after lamination*



SEM images for illustrative purposes only

Primary Applications

High Power Lithium-Ion Battery Systems that need heat and pressure activated dry and wet electrode-separator adhesion

Product Benefits

- Suitable for cost-effective high-speed lamination and heat press processes in cell manufacturing
- Helps improve cell productivity and mechanical strength by stabilizing electrode and separator interfaces in dry (during assembly) and wet (during and following electrolyte filling) states
- Enhances battery cycle life by improving wettability, reducing electrical resistance at the electrode - separator interface and by increasing resistance to degradation by oxidation in high voltage applications
- Offers significant advantages of Celgard® low-impedance trilayer base films and water-based coating
- Designed to minimize slit roll self-adhesion[2]
- No interlayer film needed

[2] *When stored in the original packaging in low-humidity / below 77° F [25 ° C] without direct sunlight*

Packaging

Please contact your Celgard representative for more information on product roll lengths and slit widths.

Technical Data (Typical Properties)

Basic Film Properties	Unit of Measure	Typical Value
Thickness	µm	16.5
Gurley (JIS)	Seconds	190
Porosity (Calculated)	%	50
TD Shrinkage @ 105°C / 1 Hour (typical)	%	0
MD Shrinkage @ 105°C / 1 Hour (typical / max)[3]	%	3.0 / 8.0
TD Tensile Strength (typical / min)	Kg/cm^2	135 / 110
MD Tensile Strength (typical / min)	Kg/cm^2	1950 / 1550
Puncture Strength (typical / min)	Grams Force (gf)	360 / 340

[3] *Free-standing film; shrinkage is zero for films laminated to electrodes*

Protected by one or more patents and/or patents pending

Contact Information

Manufacturing Locations

United States

Headquarters, Manufacturing and R&D at Charlotte
13800 South Lakes Drive
Charlotte, North Carolina
28273 United States

Phone: +1 704-588-5310
Fax: +1 704-588-5319

Manufacturing and R&D at Concord
390 Business Boulevard
Concord, North Carolina
28027 United States

Phone: +1 704-720-5200
Fax: +1 704-720-5211

China

Manufacturing & Distribution
Celgard (Shanghai) Materials Technology Co., Ltd.
Building 2, 180 North Riying Road,
China (Shanghai) Pilot Free Trade Zone,
Pudong New District, Shanghai, 200131 China

Phone: +86 (21) 5028 0001

Sales Offices

Europe, Middle East & Africa (EMEA)
Sales & Technical Service

Phone: +33 3 88 82 41 08
Fax: +33 3 55 03 59 03

Korea
Sales & Technical Service

Phone: +82 41-905-6001
Fax: +82 41-905-6099

China
Sales & Technical Service

Phone: +86 21 3813 9910
Fax: +86 21 3813 9911

Japan
Sales & Technical Service

Phone: +81 3-6891-3750
Fax: +81 3-6891-3769

India & South Asia
Sales & Technical Service

Phone: +91 80 4256 1104
Fax: +91 80 4256 1106

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