

Product Name & Description

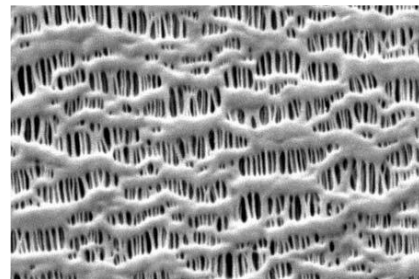
Celgard® PP1611
16µm Monolayer Microporous Membrane (PP)

Primary Applications

High Power Lithium-Ion Battery Systems

Product Benefits

- Zero TD shrinkage reduces internal shorting
- Uniform pore structure with high chemical & thermal stability
- High porosity for excellent high-rate performance
- PP layer provides superior high temperature melt integrity compared to other polyolefin-based, uncoated separators as well as oxidation resistance



SEM images for illustrative purposes only

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
Gurley (JIS)	Seconds	215
Porosity (Calculated)	%	49
TD Shrinkage @ 105°C / 1 Hour (typical)	%	0
MD Shrinkage @ 105°C / 1 Hour (typical / max)	%	1.0 / 2.2
TD Tensile Strength (typical / min)	Kg/cm ²	125 / 110
MD Tensile Strength (typical / min)	Kg/cm ²	1680 / 1560
Puncture Strength (typical / min)	Grams Force (gf)	280 / 200

Manufacturing Locations

United States

Headquarters, Manufacturing and R&D at Charlotte

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China

Manufacturing & Distribution

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