

Product Name & Description

Celgard® H1612

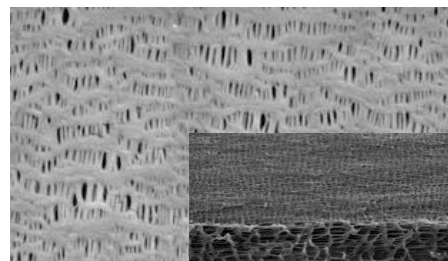
16µm Trilayer Microporous Membrane (PP/PE/PP)

Primary Applications

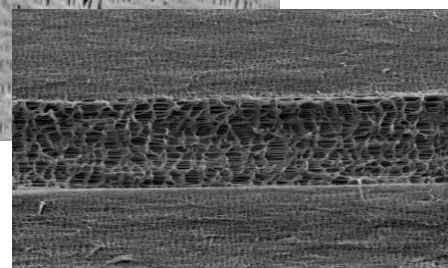
High Energy Lithium-Ion Battery Systems; especially those that require additional safety advantages

Product Benefits

- Zero TD shrinkage reduces internal shorting
- Uniform pore structure with high chemical & thermal stability
- High porosity for excellent high-rate performance
- PP outer layer provides high temperature melt integrity, oxidation resistance
- PE inner layer provides high-speed shutdown features



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	240
Porosity (Calculated)	%	44
TD Shrinkage @ 105°C / 1 Hour (typical)	%	0
MD Shrinkage @ 105°C / 1 Hour (typical / max)	%	4.2 / 6.0
TD Tensile Strength (typical / min)	Kg/cm ²	140 / 100
MD Tensile Strength (typical / min)	Kg/cm ²	2080 / 1350
Puncture Strength (typical / min)	Grams Force (gf)	350 / 280

Manufacturing Locations

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Headquarters, Manufacturing and R&D at Charlotte

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Manufacturing and R&D at Concord

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China

Manufacturing & Distribution

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