

Celgard® H1612 Trilayer Microporous Membrane

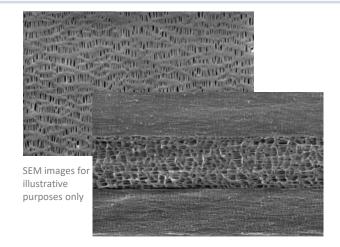
Product Name & Description

Celgard® H1612

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

Primary Applications

High Energy Lithium Battery Systems; especially those that require exceptional safety and energy density 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
- Ultra-low electrical impedance

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

Packaging

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



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