

Product Name & Description

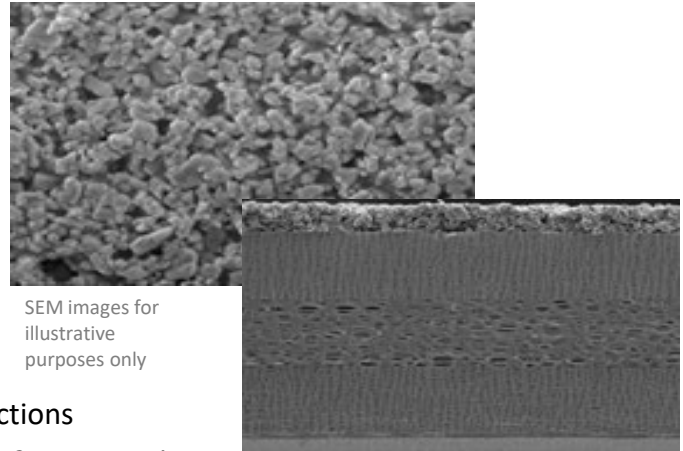
Celgard® Q18G1SY
18µm Total Thickness One Side Ceramic Coated
Microporous Trilayer Membrane (PP/PE/PP)

Primary Applications

High Power Lithium-Ion Battery Systems;
especially safety and performance-critical applications

Product Benefits

- High temperature structural integrity in x , y and z directions
- 16µm microporous trilayer membrane (PP/PE/PP) with 2µm ceramic coating on one side
- Oxidation resistance for excellent cycling & trickle charge performance
- Very low shrinkage reduces internal shorting over a wider temperature range
- Environmentally friendly water-based binder with excellent peel strength
- Enhanced wetting to improve cell manufacturability
- Combination of trilayer membrane and ceramic coating provides high-speed shutdown that is sustained over a wide temperature range
- Offers excellent power and safety performance



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	18
Gurley (JIS)	Seconds	165
Porosity (calculated)	%	53
Moisture Level (max)	Parts per million	800
MD Shrinkage @ 120° C / 1 Hour (typical / max)	%	2.5 / 8.0
TD Shrinkage @ 120° C / 1 Hour (typical / max)	%	0 / 1.5

Protected by US Patent 6432586 and other patents and/or patents pending

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