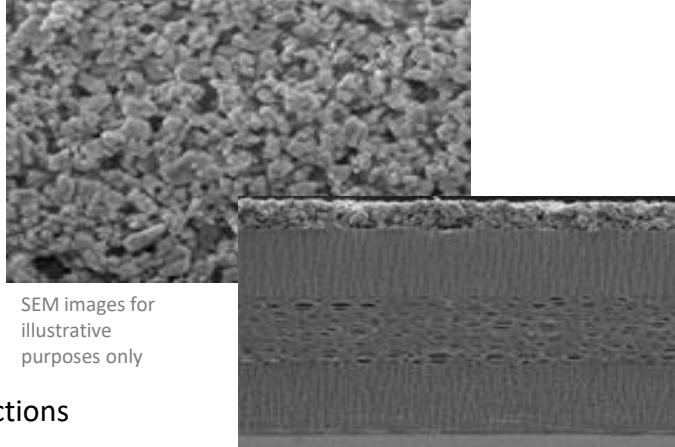


Product Name & Description

Celgard® Q18G1SY
18 μ m 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
- 16 μ m microporous trilayer membrane (PP/PE/PP) with 2 μ m 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

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	μ m	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

At the Center of Membrane Innovation

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