

Product Name & Description

Celgard® 4560
25µm Monolayer Microporous Membrane (PP)
Laminated to a Non-Woven Membrane (PP)



Primary Applications

Primary Lithium Batteries

Product Benefits

- Thick, multilayer construction provides increased strength and high puncture resistance
- PP non-woven laminate enables high electrolyte retention for long working life
- Low electrical impedance provides high-rate capabilities
- Zero TD shrinkage reduces internal shorting

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
Total Film Thickness	µm	102
Total Film Gurley (ASTM)	Seconds	9

Microporous Membrane (Typical Properties)

Basic Film Properties	Unit of Measure	Typical Value
Thickness	µm	25
Gurley (JIS)	Seconds	200
Porosity (Calculated)	%	55
TD Shrinkage @ 90°C / 1 Hour (typical)	%	0
MD Shrinkage @ 90°C / 1 Hour (typical / max)	%	1.1 / 5.0
TD Tensile Strength (typical / min)	Kg/cm ²	130 / 80
MD Tensile Strength (typical / min)	Kg/cm ²	1170 / 770
Puncture Strength (typical / min)	Grams Force (gf)	325 / 200

At the Center of Membrane Innovation

Manufacturing Locations

United States

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China

Manufacturing & Distribution
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