

Celgard® H2010 Trilayer Microporous Membrane

Product Name & Description

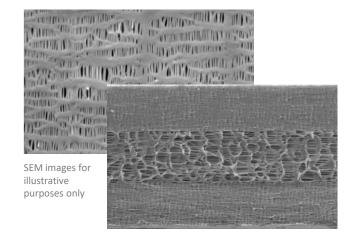
Celgard® H2010

20μm Trilayer Microporous Membrane (PP/PE/PP)

Primary Applications

High Power Lithium Battery Systems; especially those that require exceptional safety and energy density advantages.

Also an ideal substrate for coating, if required



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	20
Gurley (JIS)	Seconds	240
Porosity (calculated)	%	46
TD Shrinkage @ 105°C / 1 Hour (typical)	%	0
MD Shrinkage @ 105°C / 1 Hour (typical / max)	%	2.0 / 6.0
TD Tensile Strength (typical / min)	Kg/cm ²	140 / 100
MD Tensile Strength (typical / min)	Kg/cm ²	1900 / 1200
Puncture Strength (typical / min)	Grams Force (gf)	385 / 320

Packaging

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



Contact Information

United States

Celgard, LLC 13800 South Lakes Drive Charlotte, North Carolina 28273 United States Toll Free (US): 1-800-235-4273

Phone: +1 704-588-5310 Fax: +1 704-587-8585

France

Celgard Sales Office
Daramic SAS
BP 90149
25 Rue de Westrich
Sélestat Cedex
67603 France
Phone: +33 3 88 82 41 08
Fax: +33 3 55 03 59 03

China

Sales & Technical Service Celgard LLC 3201 Room, Galaxy Century Building A, No 3069 South of Caitian Rd Futian District, Shenzhen 518-000 PR China Phone:+86 755-8660 8688 Fax: +86 755-8660 8699

Korea

Polypore Korea, Ltd. B-506 10, Baekseokgongdan 1-ro, Seobuk-gu, Cheonan-si, Chungcheongnam-do, 31094 Republic of South Korea Phone: +82 419056001 Fax: +82 419056099

Japan

Polypore K.K. Hibiya Mitsui Tower 1-1-2 Yurakucho, Chiyoda-ku, Toyko 100-0006 Japan

Phone: +81 3-6891-3750 Fax: +81 3-6891-3769

www.celgard.com



WARRANTY: This product is to be used only by persons familiar with its use. It must be maintained within the stated limitations. The product is warranted to be free of any manufacturing defects. No other warranty is expressed or implied. Purchaser assumes all responsibility for the use and safety of this product. To the best of our knowledge, the information contained herein is accurate. However, neither CELGARD, LLC nor any of its affiliates assumes any liability whatsoever for the accuracy or completeness of this information. Final determination of the suitability of any material and whether there is any infringement of patents is the sole responsibility of the user.

Users of any substance should satisfy themselves by independent investigation that the material can be used safely. We may have described certain hazards, but we cannot guarantee that these are the only hazards that exist. Review the Product Safety Data Sheet for environmental, health and safety information related to this product.

CELGARD and the CELGARD LOGO are trademarks of CELGARD, LLC. ©2021 CELGARD, LLC. All Rights Reserved. 12/21 Item # 20063

Please download an updated version of this document at www.celgard.com/literature after 12/31/23.

