

Ultra High Barrier Metallized PET Laminates

For Vacuum Insulation Panels (VIPs) in Buildings

Application Overview



Using VIPs in new construction or architectural upgrades reduces energy loss, increases internal volume and delivers effective engineering solutions

VIPs used in construction must be robust enough stand up to site installation, remodels, and wear and tear — and last for decades. How can they hold up? By pairing high quality, highly efficient microporous core materials with the industry's most effective* MetPET metallized barrier films as the envelope, thus ensuring minimal thermal bridge.

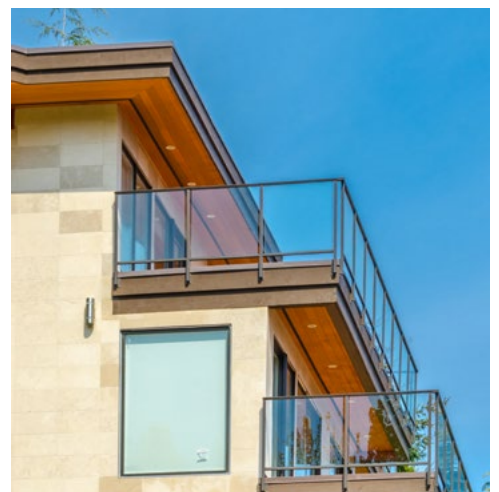
UHB metallized barrier laminates from Avery Dennison Hanita

Our ultra-high barrier (UHB) MetPET laminates deliver the air and water vapor barrier, robust mechanical strength, and low effective thermal conductivity that will stand the test of time. These films ensure exceptional MVTR values*, resulting in a minimal increase rate of thermal conductivity due to water absorption by the fumed silica powder.

The Avery Dennison Hanita range of ultra-high barrier laminate solutions upgrades functionality, increases performance and maximizes VIP longevity

Avery Dennison Hanita VIP laminates are available with flame retardant options, high heat- and moisture-resistant properties, and extra strong protective layers to suit varied locations and climates.

All laminates are available in either roll or envelope format.



MVTR values <0.015 [gr/m2day] ASTM F-1249-90 38°C 90% RH

Laminate selection for fumed silica cores

Application	Requirement	Suggested Laminate**	Envelope Construction
New and retrofit building applications	Ultra-high barrier, Cost, Longevity	V08621B	Fully Metallized Laminate
New and retrofit building applications in challenging conditions	Extra mechanical protection	V10130B	Fully Metallized Laminate
	Flame retardant requirements	V08621F	Fully Metallized Laminate

Avery Dennison Hanita offers a full range of laminate options as either master rolls or envelopes.

About Avery Dennison

Avery Dennison (NYSE: AVY) is a global materials science and manufacturing company specializing in the design and manufacture of a wide variety of labeling and functional materials. Its products include labels, radio frequency identification (RFID) solutions, tapes and fasteners, and medical applications. Avery Dennison serves customers in a wide range of industries, including non-durable consumer goods, retail apparel, logistics and shipping, durable goods, and healthcare. Headquartered in Glendale, California, the company employs over 30,000 employees in more than 50 countries. Reported sales in 2017 were \$6.6 billion.

Learn more at www.averydennison.com

**See our full range of laminate products at www.hanita.averydennison.com

For further information contact barrier.laminates@eu.averydennison.com

*The information contained herein is believed to be reliable but Avery Dennison makes no representations concerning the accuracy or correctness of the data. This product, like any other should be tested by the customer/user thoroughly under end user conditions to ensure the product meets the particular requirements. Independent results may vary.

DISCLAIMER: All Avery Dennison statements, technical information and recommendations are based on tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that purchaser has independently determined the suitability of such products for its purposes. All Avery Dennison's products are sold subject to Avery Dennison's general terms and conditions of sale, see: terms.europe.averydennison.com

©2018 Avery Dennison Corporation. All rights reserved. Avery Dennison and all other Avery Dennison brands, this publication, its content, product names and codes are owned by Avery Dennison Corporation and/or its Affiliates. All other brands and product names are trademarks of their respective owners. This publication must not be used, copied or reproduced in whole or in part for any purposes other than marketing by Avery Dennison.

Avery Dennison Israel Ltd

Kibbutz Hanita, 2288500 Israel | T: +972 4 9859919 | hanita.coatings@eu.averydennison.com

www.hanita.averydennison.com

