INDUSTRIAL FILMS Preliminary Information*

Metallized Laminates for Vacuum Insulation Panels

Item number: V096HB30



Description:

A laminate comprising two metallized PET films, a Proprietary Surface Treatment (PST) and and a coex of LDPE/ HDPE as sealing layer. This laminate demonstrates foil-like barrier qualities, with extremely low GTR, low MVTR, and low side permeation rate compared to other commercially available laminates¹. It is designed for very long term vacuum insulation panel applications requiring extremely high levels of barrier, high mechanical stability and resistance to high heat.

Product Specifications: *Product is under development and values are based on preliminary results.

PROPERTY	TEST METHOD	V096HB30	
Thickness	_	104 4.1	[micron] [mil]
Area Yield	_	8.21 5798	[m²/kg] [in²/lb]
Heat Seal Strength Heat Seal Break Point	175°C, 4kg/cm², 2 sec	>3.0 >7614	[N/mm] [g/in]
Puncture Resistance	FTMS 101C 2065	170 [N]	53.7 [lb]
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	20 [N]	6.3 [lb]
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	<0.035 <0.002258	[gr/m²day] [gr/100in ²day]
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	<3.0	[cc (STP)/ m²/year]











¹ For a sample comparison report of Hanita laminates with other commercially available laminates, please see "Comparison of Barrier of VIP Laminates - New PST Technology" under Technical Downloads on our site. More data can be provided by our technical support team tech.industrial@eu.averydennison.com. Please note that this footnote is applicable to all references to terms/durations mentioned in this data sheet.





INDUSTRIAL FILMS Preliminary Information*

Metallized Laminates for Vacuum Insulation Panels

* GTR is the rate of gas permeation into a panel, while OTR is oxygen permeation rate through a flat film. As air contains mainly nitrogen and the application is VIP, gas permeation is a more relevant value for the film performance. Detailed test description can be found under "Hanita testing methodology for VIP" on our site.

Please note that the lifetime of the products will differ based on the type of application. For an specific indication of lifetime properties of the products related to a specific application, please contact the Avery Dennison Hanita technical support team tech.industrial@eu.averydennison.com. The life time indication given by the Avery Dennison Hanita technical support team is based on a calculation believed to be reliable but shall not constitute a guarantee or warranty.

DS No=8101/37, Page 2 of 2, August 2018

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 http://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.



