INDUSTRIAL FILMS

Metallized Laminates for Vacuum Insulation Panels

Item number: **V07911P**

VACUUM INSULATION PANEL
VIPA
GLOBAL ASSOCIATION

Description:

A laminate comprising Al Foil, metallized PET and a coex of LDPE/ HDPE as sealing layer, showing very high resistance to heat and humidity, and very high barrier qualities of extremely low GTR, extremely low MVTR and low side permeation compared to other commercially available laminates[1]. Designed for high barrier applications such as extremely long term Vacuum Insulation Panels requiring absolute barrier of the envelope and edges, and resistance to high heat.

Product Specifications:

PROPERTY	TEST METHOD	V07911P	
Thickness	—	**88** **3.3**	[micron] [mil]
Area Yield	—	**9.8** **6900**	[m^2/kg] [in^2/lb]
Heat Seal Strength Heat Seal Break Point	175°C, 4kg/cm^2, 2 sec	**>2.0** **>5076**	[N/mm] [g/in]
Puncture Resistance	FTMS 101C 2065	**90** [N]	**20** [lb]
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	**10** [N]	**3.2** [lb]
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	**<0.01** **<0.00645**	[gr/m^2day] [gr/100in ^{2}day]
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	**<2.0**	[cc (STP)/ m^2/year]

appliances
construction
thermal packaging
specialty

[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.

AVERY DENNISON | Hanita Coatings

* 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 in our site.

Please note that the lifetime of the products will differ based on the type of application. For a 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.

Avery Dennison Israel Ltd
Kibbutz Hanita, 2288500 Israel
T: +972 4 985 9919
E: hanita.coatings@eu.averydennison.com

AVERY DENNISON | Hanita Coatings