INDUSTRIAL FILMS

Metallized Laminates for Vacuum Insulation Panels

Item number: **V08621F**

VACUUM INSULATION PANEL
VIPA
GLOBAL ASSOCIATION

Description:

A laminate of three metallized polyester films with a coex of LDPE/ LLDPE as sealing layer, and a matte-silver, halogen-free flame retardant (FR) coating. With extremely low MVTR, low GTR compared to other commercially available laminates[1], this product was specially developed for the construction market to deliver thermal durability, extended longevity and meet flame retardancy requirements at B2 levels in DIN 4102 testing.

Product Specifications:

PROPERTY	TEST METHOD	V08621F	
Thickness	—	**101** **4.0**	[micron] [mil]
Area Yield	—	**8.6** **6060**	[m^2/kg] [in^2/lb]
Heat Seal Strength Heat Seal Break Point	165°C, 4kg/cm^2, 2 sec	**>3.5** **>8880**	[N/mm] [g/in]
Puncture Resistance	FTMS 101C 2065	**120** [N]	**37.9** [lb]
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	**15** [N]	**4.7** [lb]
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	**<0.015** **<0.00065**	[gr/m^2day] [gr/100in ^{2}day]
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	**<9.0**	[cc (STP)/ m^2/year]

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[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.

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* 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 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 lifetime 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.

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