

# INDUSTRIAL FILMS

## Metallized Laminates for Vacuum Insulation Panels

Item number: **V07421**



### Description:

A laminate of two metallized polyester films and a coex of LDPE/ LLDPE as sealing layer, with barrier qualities suitable (compared to other commercially available laminates<sup>1</sup>) for medium term vacuum insulation panel applications that require good MVTR, and good GTR.

### Product Specifications:

PROPERTY	TEST METHOD	V07421	
Thickness	—	<b>80</b> <b>3.15</b>	[micron] [mil]
Area Yield	—	<b>9.86</b> <b>6940</b>	[m <sup>2</sup> /kg] [in <sup>2</sup> /lb]
Heat Seal Strength Heat Seal Break Point	165°C, 4kg/cm <sup>2</sup> , 2 sec	<b>&gt;3.5</b> <b>&gt;8890</b>	[N/mm] [g/in]
Puncture Resistance	FTMS 101C 2065	<b>90 [N]</b>	<b>20 [lb]</b>
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	<b>11 [N]</b>	<b>3.5 [lb]</b>
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	<b>&lt;0.025</b> <b>&lt;0.00161</b>	[gr/m <sup>2</sup> day] [gr/100in <sup>2</sup> day]
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	<b>&lt;20</b>	[cc (STP)/ m <sup>2</sup> year]



appliances



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specialty

\* 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.

<sup>1</sup> 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](mailto: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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*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](mailto: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.*

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