# **INDUSTRIAL FILMS**

## Metallized Laminates for Vacuum Insulation Panels

### Item number: V10090



### **Description:**

A single-ply laminate of 50µ metallized PET film with a coex of LDPE/ LLDPE as sealing layer, designed for short and mid-term vacuum insulation panel applications requiring high mechanical strength compared to other commercially available laminates<sup>1</sup>.

### **Product Specifications:**

PROPERTY	TEST METHOD	V10090		
Thickness	-	101 4.0	[micron] [mil]	appliances
Area Yield	-	8.5 5989	[m²/kg] [in²/lb]	
Heat Seal Strength Heat Seal Break Point	165°C, 4kg/cm <sup>2</sup> , 2 sec	>3.0 >7614	[N/mm] [g/in]	construction
Puncture Resistance	FTMS 101C 2065	<b>140</b> [N]	<b>44.2</b> [lb]	
Puncture Resistance (Japanese Sting Strength)	JIS Z1707	<b>19</b> [N]	<b>6.0</b> [lb]	thermal packaging
MVTR	ASTM F-1249-90 38°C 90% RH 100°F 90% RH	<0.08 <0.00516	[gr/m²day] [gr/100in ²day]	
GTR* (Gas Transmission Rate) @ 22°C/50% RH	Hanita's internal test method*	<45	[cc (STP)/ m²/year]	specialty



<sup>&</sup>lt;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 <u>tech.industrial@eu.averydennison.com</u>. 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 an specific indication of lifetime properties of the products related to a specific application, please contact the Avery Dennison Hanita technical support team <u>tech.industrial@eu.averydennison.com</u>. 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=8101/31, Page 2 of 2, August 2018

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