



UHB Metallized Laminates for Warm Edge Spacers

Product Overview



High barrier with minimal thermal bridge

High-end warm edge plastic spacer bars rely on the insulating qualities of ultra high barrier (UHB) laminates for best performance. Avery Dennison Hanita UHB multilayer laminates deliver the exceptional barrier to water vapor and gas needed - combined with low thermal bridge - to ensure effective thermal insulation.

Avery Dennison Hanita's innovative metallization processes have achieved new levels of barrier to moisture permeation. With an MVTR (moisture vapour transmission rate) values of $<0.015\text{gr/m}^2\text{day}$, 38°C 90% RH, these laminates are ideal for gas-filled IGUs (insulated glass units).

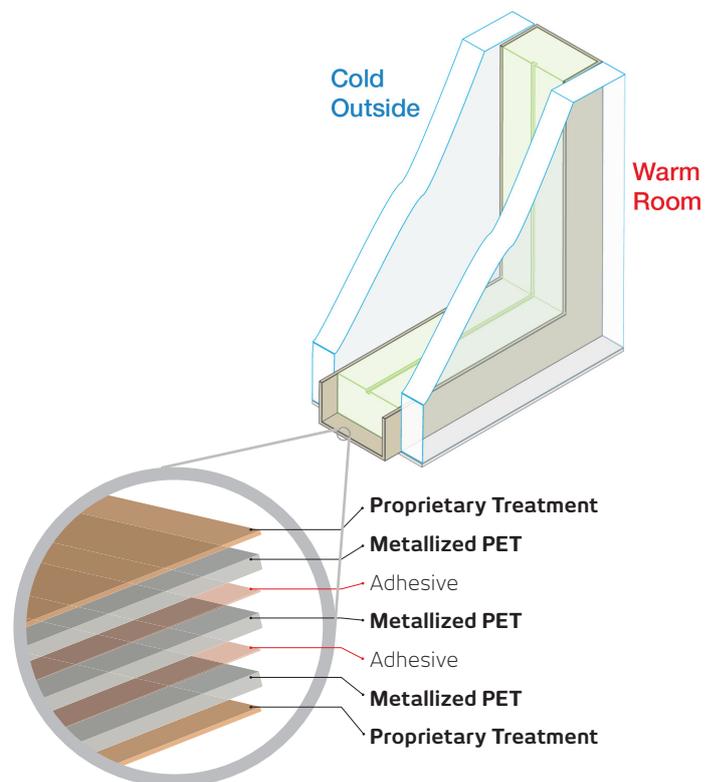
All our metallized laminates feature a robust construction that resists mechanical stress and strain to help prevent damage during fabrication. A proprietary surface treatment improves adhesion between the barrier laminates and the primary and secondary sealants, as well as to the adherent material used on the spacer itself.

Above all, the low thermal conductivity of Avery Dennison Hanita films minimizes thermal bridge thereby reducing the risk of condensation and mold forming on the frame, to ensure an optimal lifetime for the IGU.

Typical structure

Applications

- > Warm edge spacers in regular IGU
- > Warm edge spacers in gas-filled IGU



Key features

- > Ultra high barrier to moisture with market leading properties
- > Negligible thermal bridge compared to Aluminum or Stainless Steel foil laminates
- > Low gas permeation
- > Proprietary surface treatment to enhance adhesion to sealants and spacer
- > High resistance to corrosion

Avery Dennison Hanita metallized laminates

Avery Dennison Hanita offers a range of films in different thicknesses (20-50 micron), with various levels of barrier (medium to ultra-high), and differing surface treatments that ensure compatibility with a range of industry sealants used for IGU production.

Product code	Description	Advantage
M0181TA	Metallized PET laminated to 6 μ AL foil + functional sealer adhesion treatment on one side.	Long term insulation - with some thermal bridge.
M02425P	Bi-laminate metallized PET with sealer adhesion treatment.	Economical option for less demanding applications.
M0361TA	Tri-laminate metallized PET with sealer adhesion treatment on one side + functional sealer adhesion treatment on one side.	Suitable for wide range of warm edge spacers.
M0361TX	Tri-laminate metallized PET with special metallization + multifunctional sealer adhesion treatment on one side.	Ideal for all kinds of sealants.

About Avery Dennison

Avery Dennison (NYSE: AVY) is a global materials science and manufacturing company specializing in the design and manufacture of a wide variety of labeling and functional materials. Its products include labels, radio frequency identification (RFID) solutions, tapes and fasteners, and medical applications. Avery Dennison serves customers in a wide range of industries, including non-durable consumer goods, retail apparel, logistics and shipping, durable goods, and healthcare. Headquartered in Glendale, California, the company employs over 30,000 employees in more than 50 countries. Reported sales in 2017 were \$6.6 billion.

Learn more at www.averydennison.com

For further information contact barrier.laminates@eu.averydennison.com

Important note: Please review the Storage Conditions technical sheet