

# EMBOSSABLE SYNTHETIC FILTER MEDIA



H&V's embossable 100% synthetic media enables filter manufacturers to create exciting new filter forms through three-dimensional thermal embossing and pleating. With our highly flexible material, rigid pleated and embossed structures can be produced that offer significantly reduced resistance and increased surface area. This allows the airstream to gently transition into the media, distributing it evenly throughout the filter. Now, manufacturers can design filters with improved laminar (or unidirectional) airflow.

Embossable synthetic media is ideal for manufacturers marketing premium, high-efficiency HVAC filters with rigid cells and advanced pleat structures. These filters feature ultra-high particle capture efficiencies and very low initial pressure drops. Now, you can create twice the media surface area using the same size filter. The result is dramatically higher dust-holding capacity and much lower resistance. End users will reap the benefits of greater energy savings and longer filter life.

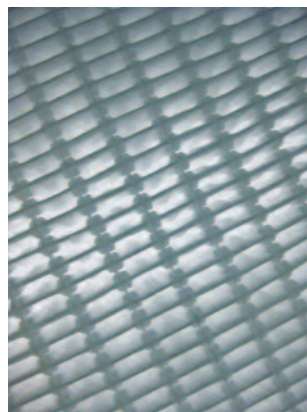
**Easy thermal embossing and pleating.** Embossable synthetic media is made specifically for advanced 3D pleating equipment. It allows deeper embossing and reduces processing time. Manufacturers can create next-generation designs that offer complete filter media utilization.

**Low airflow resistance.** Our media permits advanced pleating and spacing designs that allow gentle airstream transition and even air distribution throughout the depth of the material. This reduction in resistance translates into measurable energy costs savings and qualifies the finished filter as a sustainable component for LEED/Green Building initiatives. It is available in MERV 11, 14, and 15 efficiencies.

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**Established in 1843, Hollingsworth & Vose Company is a global leader in the supply of technically advanced nonwoven and specialty papers used in electronics, battery, filtration, and industrial applications. H&V drives value in customers' products by inventing next-generation materials with superior performance. The company operates manufacturing sites and research centers in the Americas, Europe, and Asia.**

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**Durable, lightweight material.** Embossable synthetic media is extremely durable. It is moisture- and shrink-resistant, avoids tearing and puncturing, and withstands harsh environments. The material's light weight permits easy installation, handling, removal, storage, and transport.

**Even dust loading = extended life.** The ability to create advanced pleat geometries allows even dust loading and distribution, which enables complete media utilization and maximization of the filter service life in any HVAC system.

### Applications

H&V's embossable synthetic media is designed for the premium, high-efficiency filters desired for today's residential, commercial, and industrial HVAC applications. It is available in a variety of grades.

### Available Grades

Grade	Basis Weight (g/m <sup>2</sup> )	Air Perm (cfm/ft <sup>2</sup> @ 0.5" WC)	Resistance (mm H <sub>2</sub> O @ 32 lpm)	NaCl Penetration (% @ 32 lpm)	MERV Rating
PSA 1125	145	110	1.2	26	11
PSA 1425	142	58	2.65	6.3	14
PSA 1525	150	50	2.9	4.7	15

H&V's thermally embossable 100% synthetic filter media offers manufacturers exceptional benefits:

- Low airflow resistance
- Minimal shrinkage
- Extreme durability (tear and puncture resistance)
- MERV 11, 14, and 15 efficiencies
- UL-compliant
- Fully incinerable for easy disposability
- Sustainable component for LEED/Green Building initiatives

**Other synthetic pleatable media.** H&V also offers high-performance synthetic HVAC media for pleating production processes.



**Hollingsworth  
& Vose**

[www.hollingsworth-vose.com](http://www.hollingsworth-vose.com)

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