

## High-Flux, Continuous Length Membrane Filter Media for Industrial Pleated Filter and Cartridge Manufacturers



H&V Trupor® media meets the needs of industrial filter and cartridge manufacturers by offering cost effective, continuous length membrane filter media, up to 48", for industrial, high purity and general purpose applications. Applications include water, food and beverages, chemical, industrial, pharmaceutical, and more. Trupor® grades offer comparable retention performance as current cast membranes with improved permeability and service capacity.

### The Problem

Almost all high-performance membrane cartridges are manufactured in bonded 10"-length segments. This construction has significantly higher cost of raw materials and assembly labor. They have less effective filter area. This modular construction allows more opportunities for integrity failure.

### The Solution

H&V has leveraged its 200+ years of porous materials innovation into a better microfiltration membrane. Trupor® Nylon is available in rolls of up to 40" width. This allows production of continuous-length pleated cartridges without the extra costs and quality risks associated with modular construction. And, it's suited for production of "highflow" (6" - 8" OD) pleated cartridges made in lengths of 20" to 40". Furthermore, Trupor® provides superior flux versus cast membranes in flat sheet and pleated elements.

**Continuous Lengths up to 40"** plus **Higher Flux** means: better cartridge flow rates, longer service cycles, and lower manufactured cost. Trupor delivers best-in-class membrane performance.

### H&V Products for Water

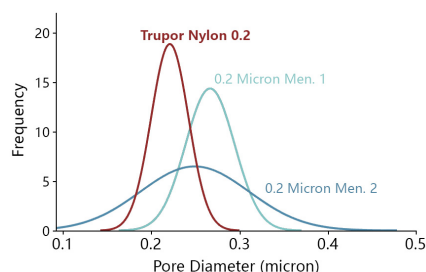
Products for water filtration are produced at multiple H&V sites and include; wet-laid cellulose, wet-laid glass, melt-blown products, Trupor® microfiltration membranes, and composites. H&V Quality Management System is certified to ISO 9001 and adheres to a Hazard Analysis, Critical Control Points (HACCP) system for products used in water filtration.

## Technical Data for H&V Microfiltration Grades

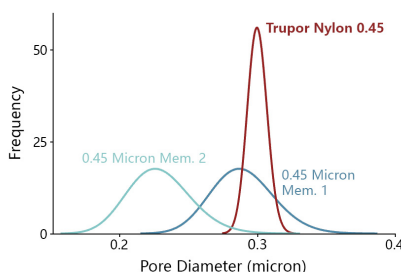
Grade	L500-3311	L120-3311	L080-3311	L065-3311	L045-3311	L020-3311
Micron Rating	5	1.2	0.80	0.65	0.45	0.20
Basis Weight (gsm) ASTM D 3776	75	75	75	75	75	75
Thickness (mm) ASTM D 1777	0.20	0.20	0.20	0.20	0.20	0.20
Air Perm (cfm) ASTM D 737 @ 125 PA	7.0	6.0	4.0	3.8	1.8	n/a*
Mean Flow Pore (um) ASTM F316	0.80	0.66	0.65	0.43	0.30	0.22
Tensile MD (Lbs/in)	4.2	4.2	4.2	4.2	4.2	4.2

## Trupor® Membrane Microfiltration Flow Rates

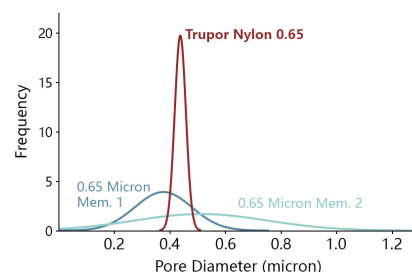
Trupor® 0.20 micron



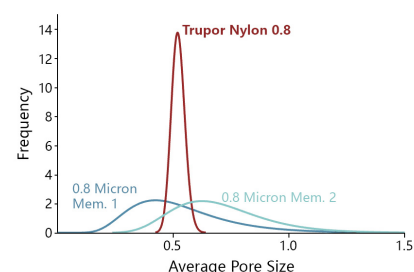
Trupor® 0.45 micron



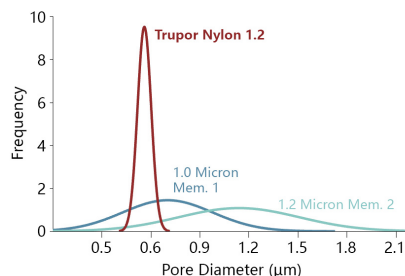
Trupor® 0.65 micron



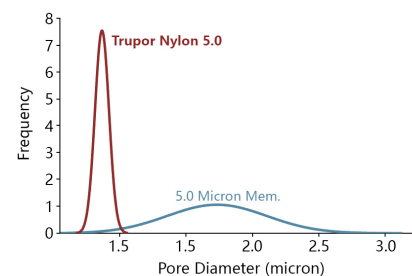
Trupor® 0.80 micron



Trupor® 1.2 micron



Trupor® 5 micron



## About Hollingsworth & Vose

Hollingsworth and Vose is a global manufacturer of advanced materials used in filtration, battery, and industrial applications. Family-owned for seven generations, the company's origins go back to the early 1700s and we have evolved continuously since that time.

Today, H&V's advanced materials contribute to a cleaner world through their use in products that provide clean air, clean liquids, and energy storage. Our Company is headquartered in East Walpole, Massachusetts USA, with 13 manufacturing and research & development facilities in the Americas, Europe, China, and India.