



HuyFlex™ 4405M from Air Purator Corp.

Specifications

ePTFE Membrane on an Ultra-life Composite Filtration Media

HuyFlex™ 4405M offers the advantages of membrane filtration while providing a high efficiency felt as a back-up filter to membrane alone in applications where installation or operational damage to a membrane is likely.

HuyFlex™ 4405M is an engineered composite material combining multiple fiber types and polymeric coatings to optimize both performance and price. **HuyFlex™ 4405M** uses the most stable PTFE yarns available, Profilen® from Lenzing, in an inner layer arranged around the circumference of the bag to enhance the properties that are most difficult to achieve in a fiberglass media: superior abrasion resistance, long flex life and a wide-angle bending radius. Finally, a layer of felted glass fibers coated with PTFE resin is added to provide a smooth, dimensionally stable lamination surface.

Here is comparative data showing how **HuyFlex™ 4405M** compares with another media promoted as a long-flex life media, SuperFlex® from W.L. Gore. We believe the flex life data speaks for itself.

HuyFlex™ vs. SuperFlex® comparison

	SuperFlex®	HuyFlex™ 4405M
MIT Cycles - Fill	274,000	1,273,000
MIT Cycles - Warp	36,000	197,000

Filtration Test Results (performed by a nationally-recognized independent laboratory)

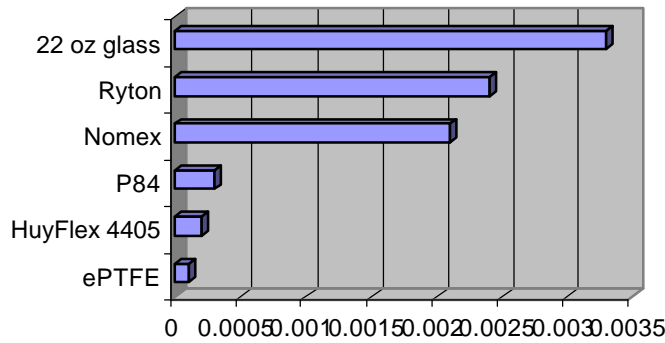
- Circulating Fluidized Bed Boiler Dust loaded at 3 Grains/ACF and an A/C ratio of 4.5:1
- Median particle size by count is 0.437µ with 87.66% of particles finer than 1 µ in diameter



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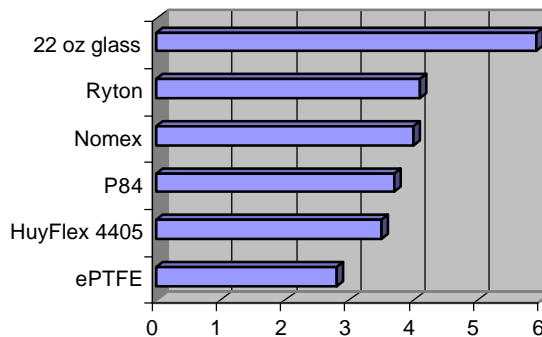
Equivalent Emissions



Grains/ACF

	ePTFE	HuyFlex 4405	P84	Nomex	Ryton	22 oz glass
Grains/ACF	0.0001	0.0002	0.0003	0.0021	0.0024	0.0033

Pressure Drops



Inches W.G.

	ePTFE	HuyFlex 4405	P84	Nomex	Ryton	22 oz glass
Inches W.C.	2.8	3.5	3.7	4.0	4.1	5.9

Specifications

- Base scrim PTFE weft yarns with Fiberglass warp yarns
- Batt fiber 100% Fiberglass
- Chemical resistant finish Silicone-based resin
- Nominal weight 19 oz/yd² (575 g/m²)
- Permeability 7 +/- 2 ft³/min @ 0.5" w.c.