

Product Selector Guide

FILTRATION NONWOVENS

Glass Air Media
Meltblown
Spunbond

Filtration Solutions

Johns Manville has been providing filtration solutions since the 1940s and offers one of the widest arrays of filtration products in the world. JM has a broad range of product technologies serving the filtration segment which include Synthetic and Glass Fiber solutions. The synthetic products include **Spunbond Polyester (PET)**, **Meltblown Polypropylene (PP)**, and **Meltblown Polyester (PBT)**. The glass fiber products include **Glass Air Media**, **Sliver** and **Microfibers**. Our diverse product portfolio allows us to design and engineer custom solutions to meet existing and emerging application requirements.



Glass Air Media

Johns Manville Micro-Aire® glass air media is used in an array of air and liquid filter applications including pocket, pleated, specialized industrial filters and cartridge coalescers. Glass air media provides pure mechanical filtration and excellent dust holding capacity. The media is produced with non-biopersistent micro glass and can be unbacked or backed with glass or synthetic options.

Average Physical Properties						Application	
Product ¹	Estimated MERV ²	Pressure Drop		Thickness		AIR	LIQUID
		in H ₂ O	mm H ₂ O	in	mm		
AFM-95	15	0.258	6.6	0.12	3.0	●	
AFS-3	14	0.242	6.1	0.27	6.9	●	
XLG-85	14	0.147	3.7	0.27	6.9	●	
DPG-85	13	0.121	3.1	0.10	2.5	●	
AFS-4	13	0.147	3.7	0.27	6.9	●	●
GFM-60	11	0.069	1.8	0.16	4.1	●	
XLG-65	10	0.069	1.8	0.29	7.4	●	
GPAF 1/2	10	0.098	2.5	0.55	14.0		●
AF-11	10	0.069	1.8	0.50	12.7	●	
XLG-45	9	0.052	1.3	0.29	7.4	●	
GFM-40	8	0.034	0.9	0.16	4.1	●	
GFM-30	7	0.026	0.7	0.16	4.1	●	
LF-4	n/a	0.389	9.9	0.50	12.7		●
LF-11	n/a	0.064	1.6	0.55	14.0		●
LF-16	n/a	0.043	1.1	0.68	17.3		●

¹ Available backing options: Unbacked, Woven Glass, Polyester, Nylon

² Estimated MERV rating based on testing at 21.6 ft/min (0.11 m/s) air velocity on a 1 ft² flat sheet.



Meltblown

Johns Manville DynaWeb® meltblown media is used in an array of liquid filtration applications including fluids processing, food and beverage and pharmaceutical. The meltblown media enables high efficiency filtration. It is available in both polypropylene (PP) and polyester (PBT) as well as calendered and uncalendered.

Johns Manville Delta-Aire® synthetic composite media is used in an array of air filtration applications. The synthetic composite media is designed for low pressure drop and high dirt holding capacity. It is a charged, multi-layer meltblown and spunbond polypropylene nonwoven that can be either stitched, heat sealed or ultra-sonically bonded.

Average Physical Properties								Application	
Product	Type	Basis Weight		Thickness ¹		Air Permeability		AIR	LIQUID
		oz/yd ²	g/m ²	mils	mm	cfm/ft ²	l/m ² /s		
Polypropylene (PP)	Uncalendered	0.35-8.00	12-203	6-130	0.16-3.30	10.0-313.0	81-2542		●
	Calendered	1.30-4.80	44-163	3.9-20.0	0.100-0.508	0.15-16.00	1.2-129.9		●
Polyester (PBT)	Uncalendered	0.30-8.00	10-271	5-125	0.13-3.17	25.0-210.0	203-1706		●
	Calendered	2.10-5.00	71-170	5.2-11.8	0.132-0.300	1.15-6.00	9.3-48.7		●
Polypropylene (PP) Meltblown & Spunbond Composite		2.90-3.80	98-129	79-100	2.00-2.54	Various		●	

¹ Thickness value is stated for reference purposes only and is not a part of the product specification.



Spunbond

Johns Manville SpunFil® and C-Clear® spunbond media is used in an array of both liquid and air filtration applications including coolant oil, food and beverage, pool and spa, cabin air and industrial cartridge systems. The spunbond media offers high tensile strength, superb stiffness, good pleatability and easy cleanability. For liquid filtration, the spunbond media delivers excellent filtration efficiency and high burst strength. For air filtration, the spunbond media offers high surface availability for dirt loading while maintaining low pressure drop. The media is a continuous bicomponent filament polyester nonwoven with a low-melt sheath layer.

Average Physical Properties								Application	
Product	Basis Weight		Thickness		Air Permeability		AIR	LIQUID	
	oz/yd ²	g/m ²	mils	mm	cfm/ft ²	m ³ /hr/m ²			
040/090	2.80	95	35.4	0.90	510	9327	●	●	
040/115 ¹	3.24	110	13.0	0.33	260	4755		●	
040/140 ¹	4.13	140	16.5	0.42	205	3749		●	
040/170	5.01	170	13.8	0.35	110	2012	●	●	
040/253	7.37	250	20.5	0.52	90	1646	●	●	
040/385	11.36	385	28.7	0.73	45	823	●		

¹ Available in anti-microbial version.

Engineered Products

Product quality, customer service and technical assistance are key elements of the Engineered Products division. Johns Manville's team of scientists and engineers work closely with customers to provide a broad understanding of material behavior. We have the capability to test full-scale, complex product solutions under various conditions. As long-standing members of the technical community, our experienced staff works with industry professionals to deliver the most cost-effective and reliable solutions.

The physical and chemical properties of Johns Manville products represent typical average values obtained in accordance with accepted test methods at the time of manufacture and are subject to normal manufacturing variations. The information regarding properties set forth in this data sheet is provided as a technical service and is subject to change without notice. For additional product and warranty information, contact your local Sales Representative.

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