

Properties Across Expanded PTFE (ePTFE) Membranes

Product Type	PFLM 101C	PFLM 101V	PFLM 210	PFLM 217	PFLM 218	PFLM 827	PFLM 910	PFLM P909	PFLM P943	PFLM P944C	PFLM P950C	PFLM P968X
Description	Hydrophobic/Oleophobic ePTFE Membrane	Hydrophobic/Oleophobic ePTFE Membrane	Oleophobic ePTFE Membrane Laminate	Hydrophobic ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate	ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate	Two Sided Oleophobic ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate	Oleophobic ePTFE Membrane Laminate
Functional Layer	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Backer Material	None	None	Polypropylene	Polypropylene	Polyamide	Polypropylene	Nonwoven Polyester	Polyester	Polyester (Black)	Nonwoven Polyester	Polyester	Polyester (Black)
Filler	Carbon	None										
Reference Pore Size	Nom. 0.45µm	Nom. 0.45µm	Nom. 0.45µm	Nom. 0.2µm	Nom. 0.45µm	Nom. 0.45µm	Nom. 0.45µm	Nom. 0.7µm	Nom. 0.45µm	Nom. 0.2µm	Nom. 3.0µm	Nom. 0.2µm
Operating Temperature	-40°C to +260°C	-40°C to +260°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C	-40°C to +120°C
Water Entry Pressure	>14.5psi (>1 bar) for 60 sec.	>14.5psi (>1 bar) for 60 sec.	>15 psi (>1.0 bar), ASTM D751	Nom. >14.5 psi (>1.0 bar) avg., ASTM D751	>15 psi (>1.0 bar), ASTM D751	>12 psi (>1.0 bar), ASTM D751	>14.5 psi (>1.0 bar), ASTM D751	Nom. >7 psi (0.48 bar) avg., ASTM D751	Nom. >14.5 psi (1.0 bar), ASTM D751	Nom. >34 psi (>2.3 bar) @ 30 sec, ASTM D751	≥4.5 PSI (0.3 bar), ASTM D51	≥21.75 PSI (1.5 bar), MEM-QA-W-071
Air Permeability	0.100 L/hr @ 70mbar – 25 L/hr @ 70 mbar	0.100 L/hr @ 70mbar – 25 L/hr @ 70 mbar	0.2 – 0.50 ft ³ /ft ² /min @ 125 Pa (20-50 l/h/cm ² @ 0.07 bar), ASTM D737	Nom. 0.05-0.20 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom. >0.18 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom 0.3-0.65 CFM at 0.5 inches water, ASTM D737	Nom. 0.2-0.45 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom. 0.5– 1.2 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom. 0.2 – 0.45 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom. 0.05-0.25 ft ³ /ft ² /min @ 125 Pa, ASTM D737	Nom. 3-5 ft ³ /ft ² /min @ 125Pa, ASTM D737	0.1 – 0.35 ft ³ /ft ² /min @ 125Pa, ASTM D737
Thickness	Nom. 0.2-0.3mm	Nom. 0.2-0.3mm	6 – 10 mil (0.15 – 0.25 mm), ASTM D1777	Nom. 6 – 10 mil, ASTM D1777	0.15 – 0.25 mm, ASTM D1777	4 – 8 mil (0.15 – 0.25 mm), ASTM D1777	0.075 – 0.2 mm, ASTM D1777	Nom. 6 - 10 mil (0.15 – 0.25 mm), ASTM D1777	Nom. 4 - 8 mil (0.10 - 0.20 mm), ASTM D1777	0.13 – 0.3 mm, ASTM D1777	6 – 15 mil (0.15 – 0.38 mm), ASTM D461	4 – 8 mil (0.10 – 0.20 mm), ASTM D461
Dust Filtration	Up to 0.07 microns	Up to 0.07 microns										
Water Holdout Pressure				Nom. >25 psi (1.7 bar) avg., ASTM F316								
Oil Repellence			> 6 Membrane Side, AATCC 118		> 6 on membrane side, >4 on fabric side, AATCC 118	> 6 Membrane Side, AATCC 118	> 6 on membrane side, >4 on fabric side, AATCC 118			Nom. ≥7 on membrane side, ≥7 on fabric side, AATCC 118		≥7 (Membrane side only), AATCC 118
Available Dimensions	Up to widths of 100mm in continuous lengths	Up to widths of 100mm in continuous lengths	OEM membranes as custom slit roll goods. Membrane vents in customised shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customised shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.	OEM membranes as custom slit roll goods. Membrane vents in customized shapes.