



Laboratory Filtration Membranes, Materials and Formats

FILTER MEMBRANE	Membrane Material	Brand Name	SEM Image	Pore Sizes	Hydrophilic/ Hydrophobic	Binding	Chemical Compatibility	Key Properties	Common Applications	Product Formats	
	PVDF	Durapore®		0.1 µm to 5 µm	Philic	Lowest	Good	Lowest protein binding	RLB, Luminex bead assays, general filtration	Cut discs, Multiscreen® filter plates, Ultrafree® filters, sterile & non-sterile Millex® syringe filters, Steriflip®/Stericup® filter systems	
	Polyethersulfone	Millipore Express®		0.22 µm and 0.45 µm	Philic	Low	Limited	Fastest flowing for sterile filtration	Sterile filtration	Cut discs, Steriflip/Stericup filter system, sterile & non-sterile Millex syringe filters	
	Mixed cellulose esters	MF-Millipore		0.025 µm to 8 µm	Philic	High	Limited	Most widely used/ referenced general purpose filter	Elispot, environmental monitoring, general filtration	Cut discs, environmental monitors, sterile & non-sterile Millex syringe filters, MultiScreen® filter plates	
	Polycarbonate	Isopore™		0.05 µm to 12 µm	Philic	Low	Limited	Smooth surface for microscopy	Particle analysis, drug permeability & solubility	Cut discs, MultiScreen filter plates	
	Nylon	Nylon		0.22 µm and 0.45 µm	Philic	Medium	Excellent	Alternative for solvent filtration	Clarification of organic solutions	Cut discs, non-sterile Millex syringe filters	
	PTFE	Fluoropore™, Mitex™		0.22 µm to 10 µm	Phobic	Low	Best	Best solvent resistance		Clarification of organic solutions, gas filtration, total drug analysis	Cut discs, Millex FG filter, MultiScreen filter plates, Solvinert™ filter plates
LCR, Omnipore™			0.1 µm to 10 µm	Philic	HPLC buffer & sample prep						

PREFILTER/NET FILTER	Membrane Material	Brand Name	SEM Image	Pore Sizes	Hydrophilic/ Hydrophobic	Binding	Chemical Compatibility	Key Properties	Common Applications	Product Formats	
	Glass fiber	AP filters		0.2 µm to 8 µm	Philic	Medium	Good	Variety of filter types	RLB, cell harvesting	Cut discs, MultiScreen filter plates, non-sterile Millex syringe filters	
	Polypropylene	PP prefilters		0.6 µm to 30 µm	Phobic	Low	Excellent	Resists solvents & high temperatures	Prefiltration	Cut discs, MultiScreen filter plates, Solvinert filter plates	
	Cellulose	RW prefilters		0.2 µm to 1.2 µm	Philic	N/A	Limited	Non-shedding prefilter	Prefiltration	Cut discs	
	PVC	PVC filters		0.8 µm and 5 µm	Philic	N/A	Limited	Medical-grade	Air monitoring	Cut discs	
	Nylon	Nylon net filters		11 µm to 180 µm	Philic	Medium	Excellent	Largest pore size available	Cell & organism filtration, lysate clearing	Cut discs, Steriflip filter system, MultiScreen filter plates	
Polypropylene	PP net filters		25 µm to 80 µm	Phobic	Low	Excellent	Resists solvents & high temperatures	Prefiltration	Cut discs		



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