

## ClariPro GK-γ Hydrophilic PES Membrane Large Capsule Filters

ClariPro GK-γ hydrophilic PES membrane large capsule filters are ready to use, gamma sterilizable, disposable filtration devices. These are specially designed filters incorporating a microglass fiber upstream layer and a downstream PES membrane final layer and are used as pre-filters in biopharmaceuticals process development as well as manufacturing process for difficult to filter solutions.

The microglass fiber layer offers high dirt holding capacity and efficient retention of colloidal particles to give clear downstream in case of difficult to filter turbid solutions. The downstream PES membrane offers absolute retention, and low protein binding along with high flow rates.

### Quality Assurance

These filter devices are manufactured in class 10,000 clean rooms under ISO 9001 certified quality management systems and are deeply validated to meet compendia and regulatory requirements.



### Applications

- Precipitate removal post viral inactivation
- Pre-filtration of serum solutions
- Clarification of cell harvest supernatants
- Polishing of turbid solutions

### Specifications

#### Construction

Pore Size	0.1µm, 0.2µm, 0.5µm			
Membrane	Hydrophilic PES			
Pre-filter	Microglassfiber			
Support Layers	Polyester			
Body and Core	Polypropylene			

#### Size

Size	5"	10"	20"	30"
Effective Filtration Area (Nominal)	2500 cm <sup>2</sup>	5000 cm <sup>2</sup>	10000 cm <sup>2</sup>	15000 cm <sup>2</sup>

Vent and Drain ¼" Hose Barb with double Silicone 'O' rings

#### Operational

Max. Operating Temperature	80 °C @ ≤ 30 psi (2 Kg/cm <sup>2</sup> )
Max. Differential Pressure	60 psi (4 Kg/cm <sup>2</sup> ) @ 30 °C

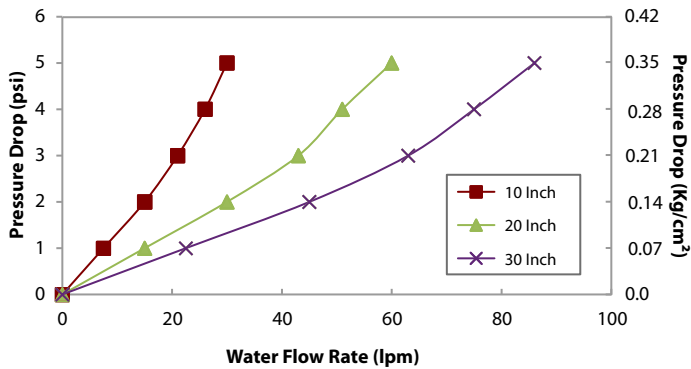
Sterilization By Gamma Irradiation Gamma Irradiatable up to 50 kGy. These filters should not be autoclaved or in-line steam sterilized.

#### Assurance

Toxicity	Passes Biological reactivity Test, <i>In Vivo</i> , as per USP <88> for Class VI plastics
Fiber Release	Passes test as per USP and comply with USFDA 21 CFR Part 210.3(b)(6) for fiber release
Particle Release	The filtrate complies with USP <788> test for particulate matter in injections
Extractables with WFI	Passes NVR test as per USP <661>
Oxidizable Substances	Passes test as per USP <1231>

## Water Flow Rates

### ClariPro GK- $\gamma$ 0.5 $\mu$ m



## Ordering Information

Type		Size		Pore Size		Inlet/Outlet		Radiation Sterilizable		Inline / T-line		Sterility		Pack Size	
	Code		Code		Code		Code		Code		Code		Code		Code
ClariPro GK- $\gamma$	LGKX	5"	53	0.1 $\mu$ m	36	1½" Sanitary Flange	E	Yes	R	Inline	X	Non Sterile	1	1	01
		10"	54	0.2 $\mu$ m	01	Single Step ½" Hose Barb	Q	No**	X	T-line***	T	Gamma Sterile	3		
		20"	55	0.5 $\mu$ m	04	¾" Sanitary Flange****	S								
		30"	56			¾" Hose Barb	I								
						1" Hose Barb *	Z								

Example:

LGKX	54	04	EE	R	T	1	01
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Example for Non Sterile: LGKX5404EERX101    Example for gamma Sterile: LGKX5404EEXX301

- \* 1" Hose Barb connection is not available in 5" capsule filters
- \*\*Gamma irradiated filters cannot be gamma sterilized again
- \*\*\* T-line is not available in 5" Capsule filter
- \*\*\*\*T-line Capsule Filter are available with 1½" Sanitary Flange I/O Connection only
- \*\*\*\*\*¾" Sanitary Flange is available only in 5" and 10" capsule filters

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