

# Pre-sterilized Polyethersulfone Membrane Syringe Filters Type SYKG-S

mdi syringe filter type SYKG-S have Polyethersulfone membrane filter and a microglassfiber prefilter in polypropylene housing.

The microglassfiber prefilter provides excellent protection to the final membrane filter due to its high retention abilities for colloidal particles resulting in excellent throughputs specially for difficult to filter turbid solutions.

These syringe filters are used for filtration and sterilization of biological solutions, culture media and serum solutions.

## Special Features

- Low protein binding
- Absolute retention efficiency
- High throughput
- 16 Channels for minimum back pressure
- Hydrophilic
- Validated for bacterial retention as per ASTM F838

## Applications

- Sterilization of biologicals
- Sterilization of culture media, sera, serum solutions and buffers



## Specifications

### Materials of Construction

Housing	Polypropylene
Pre-Filter	Microglassfiber
Filter Media	PES Membrane

### Pore Size

0.2 µm, 0.45 µm

### Bubble Point

0.2 µm	≥ 50 psi (≥ 3.52 Kg/cm <sup>2</sup> )
0.45 µm	≥ 30 psi (≥ 2.11 Kg/cm <sup>2</sup> )

### Inlet/Outlet Connections

Inlet: Female luer-lock

Outlet: Male luer slip

### Typical Hold-up Volume (with air purge)

13mm	25mm
<20µl	<50µl

### Sterilization Compatibility

Gamma sterilizable up to 50 kGy

### Burst Pressure

>14 kg/cm<sup>2</sup>

### Maximum Operating Temperature

55 °C

### Maximum Operating Pressure

75 psi @ 25° C

### Retention Efficiency

0.2 µm	LRV >10 <sup>7</sup> <i>B. diminuta</i> (ATCC 19146) per cm <sup>2</sup> of filter area
0.45 µm	LRV >10 <sup>7</sup> <i>S. Marcescens</i> (ATCC 14756) per cm <sup>2</sup> of filter area

### Recommended Sample Volume

13mm	25mm
< 10 ml	< 100 ml

### Biosafety

Passes the Biological Reactivity Tests, *In Vivo* for Class VI plastics as described in USP <88>.

### Fiber Release

Complies with USFDA CFR Title 21, Part 210.3(b)(6) and do not requires any initial flushing

### Particle Release

The filtrate complies with USP <788> test for particulate matter in injections

### Indirect Food Additives

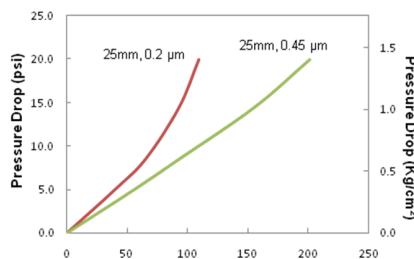
The plastic housing material complies with the requirements of USFDA CFR Title 21 Part 177.1520

### Oxidizable Matter

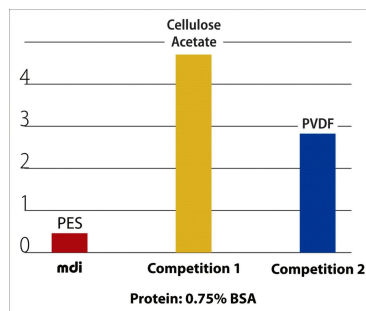
Passes test as per USP <1231>



## Water Flow Rates



## Low Protein Binding (µg/cm²)



## Packaging

### Standard Pack:

Pre-sterilized PES membrane syringe filters are individually packed in blister packs with peel off. The integrity of the package has been validated as per ASTM F 1929.

These individually packed filters are packed in boxes of 100 each specially designed for easy front access.

## Storage



It is recommended to keep the syringe filters:

- at clean and dry location
- away from direct heat sources at temperature below 50°C

## Ordering Information

Type		Size		Pore Size		Inlet/Outlet		XX	Sterility		Pack Size		
	Code	Diameter	Code		Code		Code			Code	Qty	Code	
Presterilized polyethersulfone membrane syringe filter with microglassfiber prefilter	SYKG-S	13mm	03	0.2µm	01	Female Luer Lock	M			Gamma Sterile	3	100	04
		25mm	06	0.45µm	02	Male Luer Slip	N						
Example:													
SYKG	06		02		MN		XX	3		04			