

mdi syringe filter type SYKG 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 F838-05

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 μ m, 0.45 μ m

Bubble Point

0.2 μ m	\geq 50 psi (\geq 3.52 Kg/cm ²)
0.45 μ m	\geq 30 psi (\geq 2.11 Kg/cm ²)

Inlet/Outlet Connections

Inlet: Female luer-lock
Outlet: Male luer slip

Typical Hold-up Volume(with air purge)

13mm	25mm
<20 μ l	<50 μ l

Sterilization Compatibility

EO Sterilizable	Yes
Gamma Sterilizable	Yes

Burst Pressure

>14kg/cm²

Maximum Operating Temperature

55 °C

Maximum Operating Pressure

75 psi @ 25° C

Retention Efficiency

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

Cytotoxicity

Passes the Biological Reactivity Tests, *In Vitro* for Cytotoxicity as described in USP <87>.

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

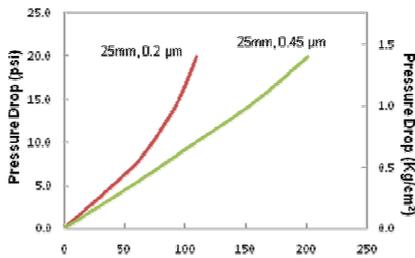
Indirect Food Additives

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

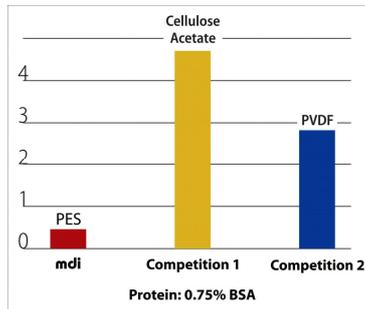
Oxidizable Matter

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 – 98.

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:

- i. at clean and dry location
- ii. 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		Code	Code	Qty	Code
Presterilized polyethersulfone membrane syringe filter with microglassfiber prefilter	SYKG	13mm	03	0.2µm	01	Female Luer Lock	M	EO Sterile	2	100	04
		25mm	06	0.45µm	02	Male Luer Slip	N	Gamma Sterile	3		
Example:											
SYKG		06		02		MN	XX	2			04