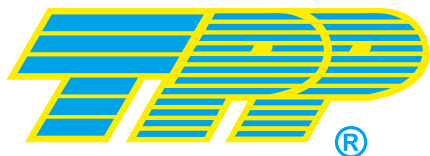


Instructions



SYRINGE FILTER



OPERATING INSTRUCTIONS

Fill the syringe with the solution to be filtered.
Remove the paper covering of the blister pack under aseptic conditions.
Set the syringe onto the filter unit and remove from the packaging.
Hold the syringe vertically with the filter unit uppermost. Press out the air until drops of the already filtered solution appear. Do not touch the base of the filter with your fingers; danger of contamination. Introduce the needle into a vessel and filter the solution

REFERENCE

To ensure perfect filtration, please do not employ the TPP filter at temperatures above 45°C.

Do not use the filter for emulsions or suspensions - it was not designed for such applications. Binding tests should be performed before filtering solutions having 5mg or less of medical substances. Always use the filter unit in the same filtering direction.

Do not use the filter as an in-line filter for intravenous deliveries; it was not designed for such purposes.

Caution is necessary if sprays with volumes under 10ml are used; the pressure that occurs in these sprays could exceed the maximum operating pressure of the filter unit 0.5MPa (5bar).

TECHNICAL DATA

Materials:	Membrane	hydrophilic polyethersulfone; TPP type "fast flow"
	Housing	co-polyester
Product No.		99722
Dimensions:	Inlet to outlet	25mm
	Diameter	33mm
	Filtration surface	6cm ²
	Pore size	0.22µm
Max. operating temperature:	45°C	
Pressure at:	25°C	0.5MPa (5bar) inlet- respectively differential pressure
		10ml to 200ml
Filtration volumes:	10ml to 200ml	
Lost volume:	0.1ml following further flushing with air	
Connectors:	Inlet	Internal Luer lock
	Outlet	External Luer lock
Flow rate:	Average initial flow rate for water at 25°C and	
	0.2MPa (2bar)	175ml/min.

Manufacturer: Techno Plastic Products AG
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www.tpp.ch / info@tpp.ch

Version 1/2008

GENERAL INFORMATION

These instructions are an integral part of our product range. Please read them through carefully before using any product.

Further information can be found in our product catalogue as well as under www.tpp.ch
Please contact your appointed dealer in case of difficulty concerning any product.

Application

All products are for laboratory use only and may only be used by qualified personnel. The products are not allowed to be used for direct applications on humans. Personal use by unqualified people is forbidden. All products are for single usage only, i. e. not reusable. Exception: Racks can be autoclaved for multiple use.

Certification

All products are free from pyrogenics (LAL-test: <0.06EU/ml).
Pipettes, tissue culture flasks with peel-off lids, and syringe filters:<0.5EU/ml (LAL-Test)
All products are free from RNA, DNA, RNases and DNases
All products, packaging materials and colorants are free from heavy metals

Sterility / Packaging

All products are gamma-sterilised. The sterility is maintained indefinitely as long as the packaging remains unopened and free from visible defect. Opening of the packaging at the indicated points and removal of content shall be done in a sterile environment (laminar flow). Opened packets shall be stored under sterile conditions. Factors such as direct sunlight, moisture and large temperature change can impair sterility.

Temperature Restrictions

The application temperature is physically limited and varies dependent upon the base material. The following general temperature data can deviate dependent upon the specific product.

	PE	PP	PS
Permanent exposure (max.T)	70 - 80°C	100 - 110°C	60 - 70°C
Short exposure 15min (max.T)	80 - 100°C	120 - 140°C	75 - 80°C
Permanent exposure (min.T)	-40°C	-190°C	-30°C

Chemical Resistance

The chemical properties are those of the base materials and may be found under www.tpp.ch

Storage

The products shall be stored in a dry environment and away from sunlight at between +5 to +40°C.

Shelf life

Please note the expiry date on the package label. Products shall not be used after this date.
Example: EXP 12/2009 - can be used up to December, 2009.

Fracture risk

Products made from Polystyrene are hard and brittle. They can be damaged even by a fall from moderate height. Products in PP are not so brittle but can change their shape; please use only optically perfect products. The presence of cracks or deformity can inhibit the function of the product and could endanger your safety. The result might be the injury and contamination of people as well as contamination of laboratory equipment.



Disposal

Contaminated products may only be disposed of according to the specific rules of the given country (usually require sterilisation before disposal). Non-contaminated products can be disposed of as usual household trash.

Guarantee-Reference

The products are to be used according to the instructions. When correctly used, the manufacturer offers a product guarantee up to the expiry date. Further guarantee claims are specifically excluded. The guarantee claim must be made without delay; otherwise the claim becomes invalid. Opinions, comments and/or promises given or made by a sales representative are in no way binding on the manufacturer. The decision to either reimburse the purchase price or to replace the product lies solely with the manufacturer.