

# Instructions



Manufacturer: **Techno Plastic Products AG**  
 Zollstrasse 155  
 8219 Trasadingen / Schweiz  
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## 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](http://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](http://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 12/2007 - can be used up to December, 2007.

## 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.

## CENTRIFUGE TUBES



## OPERATING INSTRUCTIONS

**Introduction of Medium:** Use a pipette and allow the medium to flow down the sides of the tube.

**Tube closure:** The screw cap must be tightened down on all products to ensure gas- and liquid tightness.

**Centrifuging:** Use the applicable centrifuge adapter.

## ADVICE

Please see "Fracture risk" in the General Information section. In addition, please consult the data on maximum centrifugal acceleration force.

## TECHNICAL DATA

Materials:	Screw cap Tube	PE PP/PS				
	<b>Product No.</b>	<b>91015</b> <b>*91115</b>	<b>91016</b>	<b>91019</b>	<b>91050</b>	<b>91051</b>
Volume:		15ml	14ml	13ml	50ml	50ml
Dimensions:	Length	120mm	110mm	100mm	115mm	115mm
	Diameter	16.5mm	16.5mm	16.5mm	30mm	30mm
Max. centrifugal acceleration:		9500g	9500g	9500g	9500g	9500g
		*1700g				

