

## Polypropylene Micro Centrifuge Tubes

### LP1234



#### Features

- Micro Centrifuge Tubes are made from the highest quality of virgin polypropylene
- RNase, DNase & Pyrogen free for safer use in molecular biology and other biochemical applications
- These tubes can be used in very low temperatures & with various organic solvents
- These tubes are with Integral Snap Cap
- Frosted area on the surface of the tubes for easier writing
- Large moulded graduations for easier reading
- Centrifugation range up to 20,000 RCF (Rated at 14000 RCF with Phenol and Chloroform)
- Can be autoclaved
- No leakage, tested up to 635 mm Hg

#### Material

- Polypropylene (PP), Hydrophobic
- Temperature range from -80°C to +121°C
- Complies with requirement of Directive 2002/72 EC and requirement of FDA Regulation 21 CFR 177.1520 of fine polymers
- Free from heavy metals according to ELV directive 2000/53/EC and its following amendments.

Part Number	Colour	Capacity (mL)	Outer Diameter (mm)	Height (mm)
LP1234-0.5	Clear	0.5	10	31.5
LP1234-1	Clear	1.5	13	41
LP1234-2.0	Clear	2.0	13	41
LP1234-1.5A	Amber	1.5	13	41

## Polypropylene Micro Centrifuge Tubes

### LP1234

#### Physical Properties of Polypropylene (PP)

Usage Temp MAX (°C)	Brittleness Temp (°C)	Transparency	Specific Gravity	Flexibility	Water Absorption (%)
135	0	Translucent	0.90	Rigid	< 0.02

#### Sterilization

**Autoclaving** - (121°C, 15 psig for 20 minutes)

**NOTE:** Always Autoclave Micro Centrifuge Tubes with the Cap open.

**Dry Cycle** - Do not use as this may cause deformation or weakening of the plastic.

**Radiation** - Do not use as this may cause deformation or weakening of the plastic.

**Gas** - Ethylene oxide, formaldehyde.

**Disinfection** - Benzalkonium chloride, Formalin, Ethanol, etc

**NOTE:** Sterilizing reduces mechanical strength.

#### Autoclaving Guidelines

Clean and rinse item with distilled water before autoclaving. Certain chemicals which have no appreciable effect on resins at room temperature may cause deterioration at autoclaving temperatures.

These plastic consumables are autoclavable at 121°C for 15 minutes, 15psi/1 atm.

Do not use a dry cycle as this may cause deformation or weakening of the plastic.

Allow temperature within the autoclave to return to at least 80°C before removing the product

#### Chemical Resistance for Polypropylene (PP)

Class of Substance at Room Temperature	Performance	Class of Substance at Room Temperature	Performance
Acids (Dilute/Weak)	E	Hydrocarbons (Aliphatic)	G
Acids (Strong & Concentrated)	E	Hydrocarbons (Aromatic)	F
Alcohols (Aliphatic)	E	Hydrocarbons (Halogenated)	F
Aldehydes	G	Ketones	G
Bases	E	Oxidising Agents (Strong)	F
Esters	G		

E = Excellent, 30 days of constant exposure causes no damage. Plastics may even tolerate for years.

G = Good, Little or no damage after 30 days of constant exposure to the reagent.

F = Fair, Some effect after 7 days of constant exposure can include crazing, cacking, loss of strength or discoloration.