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TECHNICAL DATA SHEET
**DISPOSABLE SPECTROPHOTOMETER CRISTAL POLYSTYRENE
CUVETTES**

Codes **111117 - 112117**

LP ITALIANA produces disposable spectrophotometer cuvettes in the following versions:

MACRO and SEMI-MICRO.

Designed as a disposable product, they are in optical polystyrene (with high optical transmittance) in order to improve efficiency, while reducing costs and avoiding cross contaminations.

LP ITALIANA spectrophotometer cuvettes have the following features:

MACRO : mm 10 x 10 x 45, volume 2 - 4 ml, CODE 111117

SEMI-MICRO : mm 10 x 4 x 45, volume 0,5 - 2 ml, CODE 112117

MACRO cuvettes are also suitable for flowmetry and nephelometry too.

Both versions have a reference arrow helping the correct insertion in spectrophotometer housings. The two non reading walls, used for handling, have grooves which help preventing insertion mistakes, scratches and dirt on the reading walls.

They have sufficiently wide chemical resistance to satisfy all their analytical applications.

Intended use and CE mark: LP disposable cuvettes, here described, can be used for general puposes within a lab, but LP indicates as their main intended use the containment of fluids derived from the human body for the purpose of providing information concerning a physiological or pathological state of one patient they fall under the European Directive 98/79/CE – Annex III - on In Vitro Medical Diagnostic Devices (IVMDD), according to which they bear the conformity **CE** mark.

Highly automated production processes under the strictest quality regulations, avoid all human contacts. They are packed in polyfoam boxes of 100 pcs., all coming from the same cavity, granting the best repetitiveness and consistency of transmittance for the cuvettes of the same box.

This precaution helps the operators to save time and materials; in fact they have to make just one "blank" test (calibration and setting) at the beginning of the work, certain that all other cuvettes have the same absorbance - transmittance performance, without relative optical distortion to alter the results.

Polyfoam boxes protect the cuvettes from dust and atmospheric particles until they are opened and contribute to keep cuvettes in best conditions: only corners and the bottom of cuvettes are in contact with the boxes.

The delicate optical surfaces are protected from accidental scratches that could be caused by transport or manipulation, from the beginning of the production process up to their use.

Each carton contains 10 boxes, for a total of 1000 cuvettes which do not need any further calibration setting.

The reusing of the same polyfoam boxes during the analysis prevents the liquid contained inside the cuvettes from leaking out accidentally.

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Optical characteristics of LP ITALIANA CUVETTES:

Light absorbance accuracy: $\pm 1\%$

Average transmittance of cuvettes coming from different cavities: 70% at 340 nm

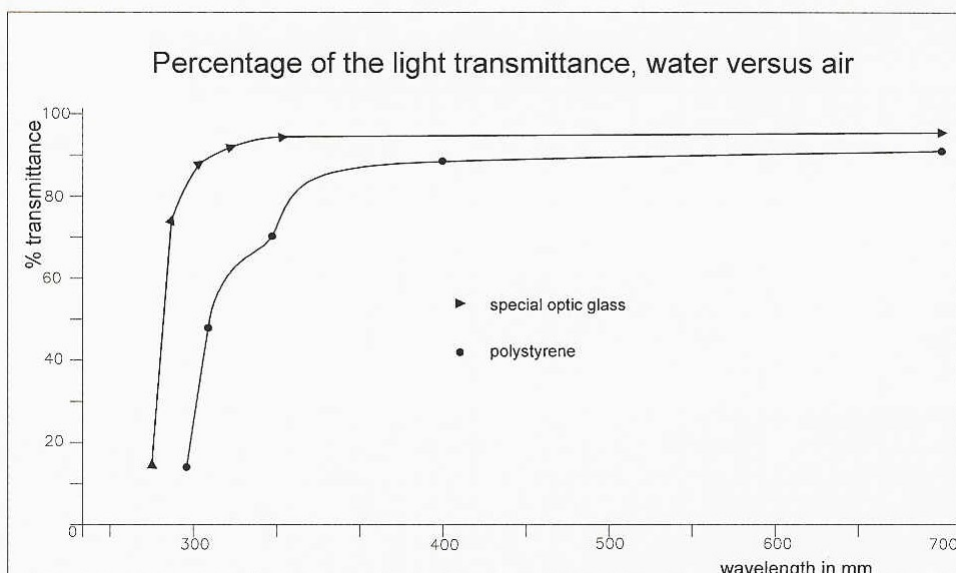
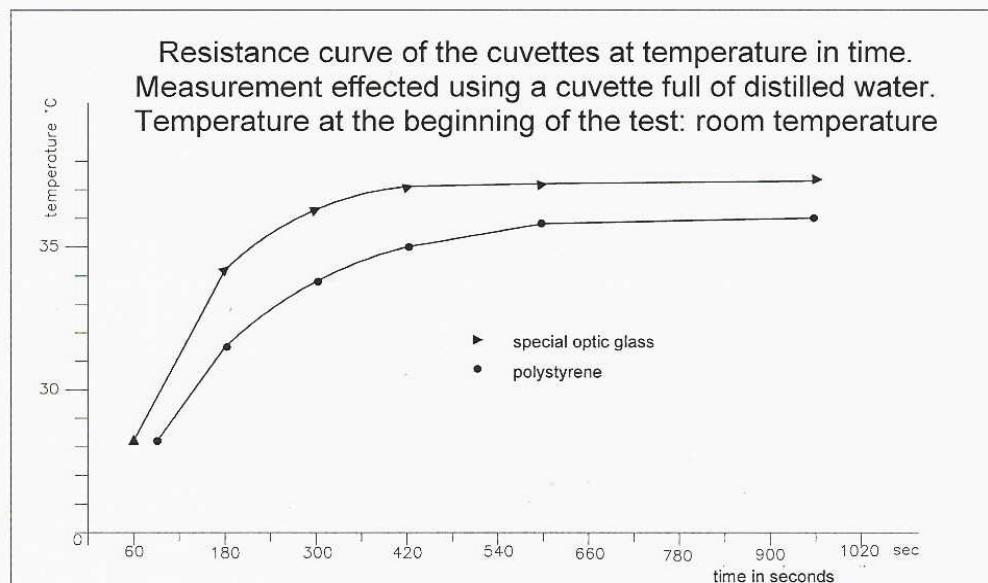
Minimum transmittance: from 80% to 90%, between 400 and 800 nm

Minimum transmittance accepted: 67% at 340 nm

Maximum transmittance variability of cuvettes coming from the same box: 4%

Maximum variability between the two walls of the same cuvette: 2%

Optical path: 10mm, tolerance below 1%, measured at 10 mm from the bottom.



Disposal: LP cuvette are totally recyclable; can also be incinerated while respecting antipollution norms because, after burning, they liberate, in the environment, water and carbon dioxide only (combustion performed at right temperature and with correct air insufflation).