

# Lovibond® Colour Measurement

Tintometer® Group



## Lovibond® Pellet Holder

For the Lovibond® RT300, RT400 & RT500

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## Spectrophotometer Accessories

The Lovibond® Pellet Holder is a fixture designed for holding large pellet media such as plastic for injection moulding. This fixture is not intended for measuring powders.

The fixture slips over the shoe of the Lovibond® model RT300 and RT500. Fixtures are held in place by a single turn of the fixture's body. Filling is accomplished through an opening on the front of the fixture which closes to retain the pellets. The pellets are pressed against a pyrex window at the instrument sample port by a spring-loaded piston.

### Filling Procedure:

**For best results, it is important to follow proper procedures when using the pellet holding fixture:**

1. Thoroughly clean the pyrex window and install it in the recess at the top of the fixture.
2. Slip the fixture over the shoe of the spectrophotometer and attach by turning the body of the fixture clockwise until it is tight (approximately one revolution).

**NOTE:** Due to the high variability of the pellets when packed in the fixture only the large area view optics should be used.

3. Open the filling port by turning the body counterclockwise 1/4 turn.
4. Pull out the piston and rotate to hold the open position.
5. Fill the fixture with pellets to be measured (A funnel is very handy for this task).
6. Close the filling-port by turning the body of the fixture clockwise 1/4 turn.
7. Release the piston to compress the pellets.

### Tips & Techniques:

Because of the random variability in the packing of the pellets when filling the fixture, only large area view optics should be used and a minimum of 5 measurements should be averaged for each reading. The plunger could be released and the fixture shaken slightly between measurements within the averaged reading.

The size of the pellets will affect the amount of variability. Larger pellets will have more variation than smaller pellets and may require additional measurement averaging to obtain meaningful results.

