

WORK INSTRUCTION

Incoming Raw Latex Testing : Mechanical Stability Test (MST)

Purposes/Function/Objective

- To determine the mechanical stability of Latex

Materials/ Chemicals/Tools/Equipment

1. Latex(Natural Rubber)- Sample
2. Beaker 250ml
3. Digital Thermometer
4. Analytical Balance
5. Wire Mesh 80
6. MST beaker
7. MST stirrer (14,000 rpm)
8. Glass Rod
9. Petri Dish

Specification

Calculation for MST, X :

$$\frac{55 \times 100}{\text{TSC of Raw Latex (\%)}}$$

Form/s:

- NIL

References :

- ISO 35

Procedures

1
Calculate the volume of latex to be measure

$$X = \frac{55 \times 100}{\text{TSC}}$$



Weigh the sample of latex (X gram) in beaker.



Add 1.6% of NH_3 (Ammonia solution) until the total of sample up to 100g of the weigh.



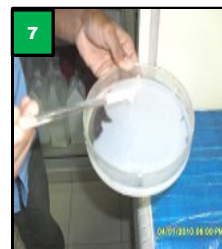
Heat mixture in 100 °C oven until the latex temperature : 34-36°C. (Temperature device by digital thermometer around 2 minutes.)



Immediately filter 80g of latex into MST cup using wire mesh



Conduct the MST test by using MST machine and start the timer (5-6 minutes)



Determine the end point by sampling the latex and spreading the sample gently on the surface of water in a petri dish

8
Stop the timer when appearance of flocculum on the surface of water

9
The results are recorded as the number of seconds between the commencement of stirring and the end point

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