

WORK INSTRUCTION

Production Process Control Testing : Swelling Index Test

Purposes/Function/Objective

- To conduct swelling index test in the manufacturing process to avoid any effect on the glove quality

Materials/ Chemicals/**Tools/Equipment**

1. K-Bar Coater
2. Glass plate
3. Spatula
4. Round shape cutter
5. Cutter machine
6. Petri dish
7. Toluene
8. Cornstarch powder

Specification

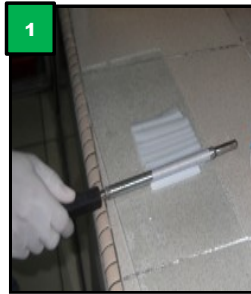
- use K-Bar Coater (no 1) to stretch latex on glass plate.

Form/s

LA/F03

References :

- nil

Procedures

Pour latex sample into glass plate and make a thin film using K-Bar coater.



Let sample dry in the oven for 5 minutes at temp 100°C.



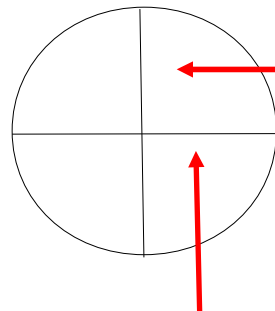
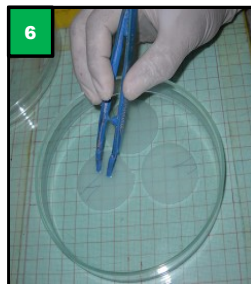
Cool at room temp and pull the sample by using cornstarch powder.



Cut the latex film with using perfectly round shape (diameter 2.5cm).



Soak the film with toluene solution into petri dish for 15 minutes to ensure the film expand to the max.



diameter=X cm

diameter=Y cm



7 calculation:-

Get average diameter $Z = \frac{(X + Y)}{2}$

% of Swelling index = $\frac{(Z-2.5) \times 100}{2.5}$

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