



Plasma-enhanced chemical Vapor deposition (PECVD)



Description

The PECVD is a process used to deposit thin films from a gas state (vapor) to a solid state on a substrate. Chemical reaction are involved in the process, which occur after creation of a plasma of the reacting gases.

A - Silicon, Silicon Oxide, Nitride and Carbide films deposition.

Manually loaded PECVD with vacuum load-lock. It is equipped with a high temperature (325°C) isothermal reactor placed inside a vacuum vessel. It is controlled by PC with software operating under Linux. It is dedicated to fast deposition of SiO₂, SiN and SiC on for 10 X 2" wafers or wafers up 200 mm. Equipped with a CCD camera laser endpoint detector, it offers automatic multistep process capability.

Specifications / Capabilities

Process range temperatures: 250 – 300C

Samples size: up to 8" wafer

Thickness range: from nanometric scale up to 1um (at once, without clean)

Recipe structure: stabilization with gases on, RF on, deposition, purge

Available Gases

Ar, N₂, N₂O, SiH₄, NH₃, SF₆, C₂H₄

Link

<http://www.corial.net/>

http://www.corial.net/index.php?option=com_content&view=article&id=105&Itemid=176