

black film

A film thinner than about $1/4$ wavelength of visible light. Black films are often *equilibrium films*, but equilibrium films may be considerably thicker under some conditions.

In soap films, two types of equilibrium film are often observed: the one characterized by thickness of the order of 7 nm or more which varies significantly with minor changes in composition such as ionic strength, is called common black film.

See also *Newton black film*.

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