Idealine

Calculator of dimensional change with changing temperatures and relative humidity

Remark: calculator only applies to relative humidities between 30 and 70%

With relative humidities lower than 30 % or higher than 70 % irreversable dimensional changes occur

Reference temperature:	20	°C	You may overrule the reference temperature
Reference relative humidity:	50	% RH	You may overrule the reference relative humidity
Film length:	660	mm	Fill out the film length at reference conditions
Room temperature	21	°C	Fill out the room temperature
Room relative humidity	55	% RH	Fill out the room relative humidity
Temperature expansion coefficient:	18	µm/m °C	Default value for silver halide film
Relative humidity expansion coefficient:	14	µm/m %RH	Fill out the correct relative humidity expansion coefficient

The RH coefficient is a value between 9 and 14 µm/m %RH, depending on

- Direction of the base material (length or square to the production directio
- Centre or board part of the base material
- RH range
- Before or after processing
- Blackness

Length change: **58,08 µm** **After full acclimatisation**

Eric Janssens - October 2005

AGFA