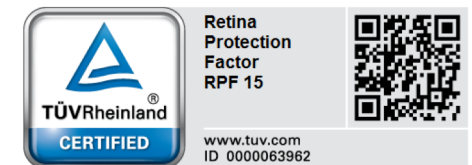


Technical Requirements & KPI Eyesafe® RPF Filter | **RPF®**



The Retina Protection Factor is identified per the TUV RPF Blue Light Standard as a factor (percentage number between 0-100) to quantify the performance of reduction of hazard blue light of a display product

RPF	Shift of CCT	Luminance Reduction
RPF15	≤250K	≤20%
RPF20	≤350K	≤20%
RPF30	≤500K	≤20%
Notes	Notes	Notes
<p>RPFLevel = 100 * (LB without - LB with) / LB without, in which</p> <ul style="list-style-type: none"> ▪LB without: is the blue light hazard weighted irradiance calculated without film; ▪LB with: is the blue light hazard weighted irradiance calculated with the film. <p>LB= $\sum L(\lambda) \times B(\lambda) \times \Delta \lambda$</p> <ul style="list-style-type: none"> ▪$L\lambda = E\lambda(\lambda, t)$ is the spectral irradiance in $W/m^2/nm^{-1}$ ▪$B(\lambda)$ = Blue-Light Hazard Function (see attachment extract from ICNIRP Guidelines (http://www.icnirp.org/cms/upload/publications/ICNIRPVisible_Infrared2013.pdf) ▪$\Delta \lambda = 1$ 	<p>The application of the solution will reduce the blue content and lead to a display color temperature deviation and luminance reduction within an identified range. The performance of the solution shall not lead to a color temperature shift too much and affect the intended use of display.</p>	<p>The minimum film spectral transmittance of visible light [380nm to 780nm] is 80%, or the luminance reduction should be less than 20%.</p>



Example TUV RPF certification mark