

and scalp layer are evenly distributed at the inside and outside of the predictive model. The hair layer of 1.3-1.5 mm is absorbed by the parameterization error of 1.6 mm. These pilot results indicated that for the design of head mounted products that rest on the flattened hair layer, a margin of about 1.5 mm should be taken into account for eventual variations in hair thickness. For the design of (personalized) head mounted products, the tested parameter driven predictive head model can be used without loss of accuracy towards the presence of a flattened hair layer. Further large scale and in vivo studies are required to confirm and fine-tune these results.

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