ORENDA GROUP LTD SPF RESULTS



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The sample products have been received by Entekno in May 2020, and the SPF analyses were carried out following COLIPA standards on PMMA plates (HelioScreen HD6). All samples were measured 20 times to obtain a statistically accurate average result.

UVA and UVB protection values of product can be seen in Table 1.

Sample Name	SPF	CoV%	UVA	UVB	UVA/UVB	Critical Wavelength		500nm %T	550 nm %T
SPF 50	51,02	21,80	43,90	52,33	0,84	376	51,34	60,19	65,01

Table 1. UVA and SPF results of samples.

The critical wavelengths and UVA/UVB ratios of the cream samples are well above 370 nm and 1/3 limits, respectively which are the minimum values for UVA protection set by the EU standards.

The recommended critical wavelength value for Sun care product should be at least 370 nm. All

samples are providing this value.

According to the cosmetic standards, in order to claim that a sun care product also protects in UVA region and write "Broad Spectrum – Provides Fully Protection" expression, 1/3 of the sun protection factor stated on the label must belong to UVA protection factor. It has been determined that the analyzed samples highly provide this value.

<u>Recommendation</u>: If the homogenization time & rate is increased, more homogenous product & higher SPF values can be achieved.

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