



vegaUV

beyond the spectrum of visible light



Three different types of UV-reflecting materials have been developed. When used in a suitable application, these new materials offer a performance improvement compared to anodized material or other typical reflective surfaces. The production process continuously monitors the deposition of the layers on the material in order to guarantee the highest performances and the highest resistance to the difficult LED working conditions. Always.



UV-A suntanning

vegaUV-A is suitable for suntan lamps and in forensic applications. Moreover, gems and pieces of art can be better evaluated under this radiation. Insect traps use these wavelengths as well.

vegaUV-B finds its application in medical field. The main diseases that are treated with UV-B lamps are psoriasis, eczema and loss of skin color. It is also used in new born therapy.



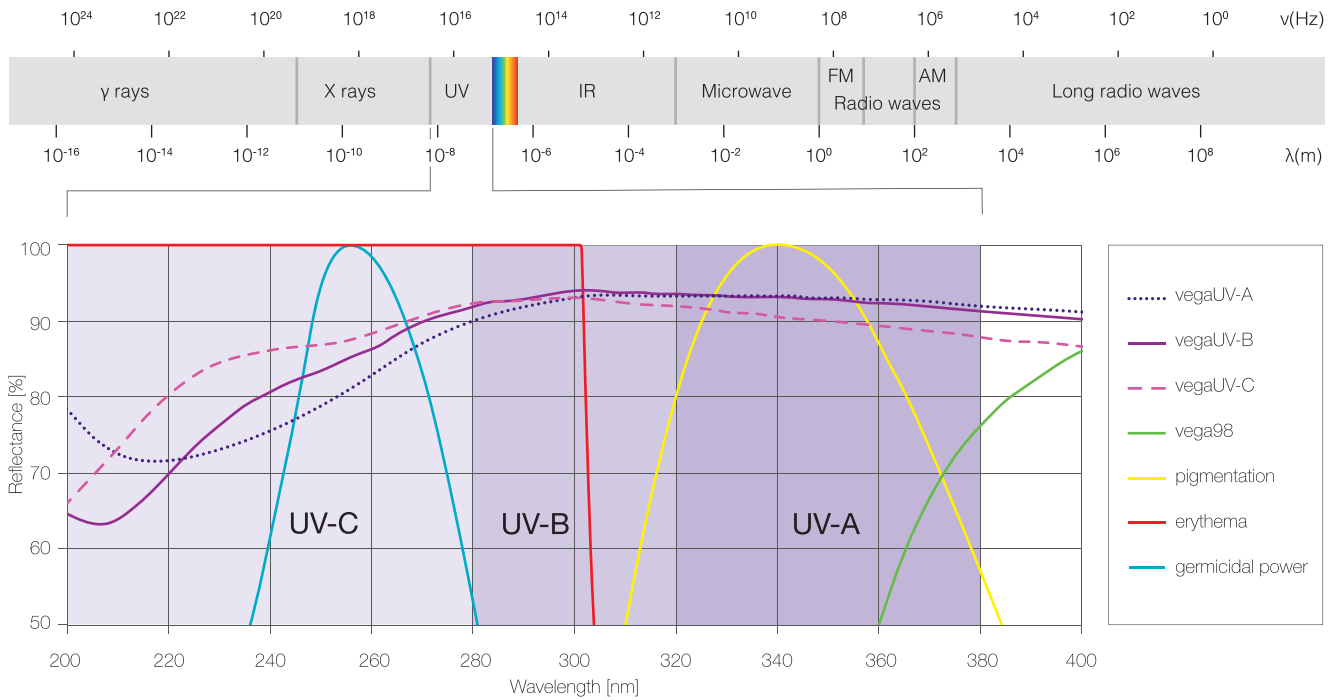
UV-B skincare



UV-C germicidal power

vegaUV-C is mainly used in various sterilizing applications, as this shortwave radiation has a germicidal power.

Reflectors made with **vegaUV** can also be used for all sorts of UV-curing lamps.



Optical values

	Typical [%]
VUV-A: hemispheric reflectance @ 360 nm	93±2
VUV-B: hemispheric reflectance @ 300 nm	94±2
VUV-C: hemispheric reflectance @ 240 nm	86±2

Physical properties

	Value [W/mK]
Thermal conductivity	>220

Environmental stability

Conditions	Time [h]	Reflectance change [%]	Cross hatch test
Oven - 250°C	500	<1	OK
Climate chamber 85°C - 85% r.H.	1000	<1	OK
UV 5.53 W/mm² @340nm	500	<1	OK
Condensation test (60°C - 95% r.H.)	100	<1	OK

Mechanical stability

	Value	Standards
Cross hatch test	no more than 2 of 100 test fields delaminating	ISO 2409 / ASTM D 3359

Available sizes

Thickness [mm]	0.30 - 0.40 - 0.50 - 0.70 - 0.75 - 1.0
Width [mm]	≤1,250



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