



VegaUV-C

TECHNICAL DATA

FINISHING – surface 1	Specular	brightened and anodized + PVD coating (Al/SiO ₂)
FINISHING – surface 2		anodized
ALLOY	1090	EN 573-3

MECHANICAL PROPERTIES

	Value	Standards
TEMPER	H 18 (hard)	EN 515
TENSILE STRENGTH	125 - 200 N/mm ²	EN 485-2
YIELD STRENGTH 0.2%	105 - 180 N/mm ²	EN 485-2
ELONGATION A ₅₀	>2 %	EN 485-2

PHYSICAL PROPERTIES

	Value	Standards
THERMAL CONDUCTIVITY	>220 W/mK	-

OPTICAL VALUES

	Typical	Standards
VUV-C: HEMISPHERIC REFLECTANCE @ 254nm	90% ± 2%	-
VUV-C: HEMISPHERIC REFLECTANCE @ 270nm	91% ± 2%	-
VUV-C: HEMISPHERIC REFLECTANCE @ 280nm	90,5% ± 2%	-
IRIDESCENCE	absent	INTERNAL
COLOUR VALUES – a*	-3 < a* < 2	CIE Lab (D65 / 10°)
COLOUR VALUES – b*	-5 < b* < 2	CIE Lab (D65 / 10°)

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ENVIRONMENTAL STABILITY

Conditions	Time	Reflectance change	Cross hatch test	Standards
OVEN – 250°C	500 h	< 1%	OK	
CLIMATE CHAMBER 85°C – 85% r.H.	1000 h	< 1%	OK	
UV 0.53W/m ² @ 340nm	500 h	< 1%	OK	
Condensation test (60°C / rH 5%)	100 h	< 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	0.30mm – 0.40mm – 0.50mm – 0.70mm – 0.75mm – 1.0mm
WIDTH	≤ 1250mm

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All information provided is based on up-to-date values where possible. Optical values are average results from 0.4mm metal and are published for guidance only; they may vary according to raw material thickness. For more detailed information please contact our technical sales department. Physical characteristics of the materials are in accordance with EN (European Committee for Standardization).

General tolerance

Gauge tolerance: ± 0.03 mm
 Width tolerance: ± 0.15 mm
 Length-cut sheets: ± 1 mm/m

Note

All materials listed above can be delivered in various sizes and shapes according to customer requirements. Products with protective tape are guaranteed for six months after delivery if they are stored in a conditioned room (temperature 20-30°C and relative humidity 50-60%) and kept away from sunlight and any heating source. Protective tape is not UV resistant.



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