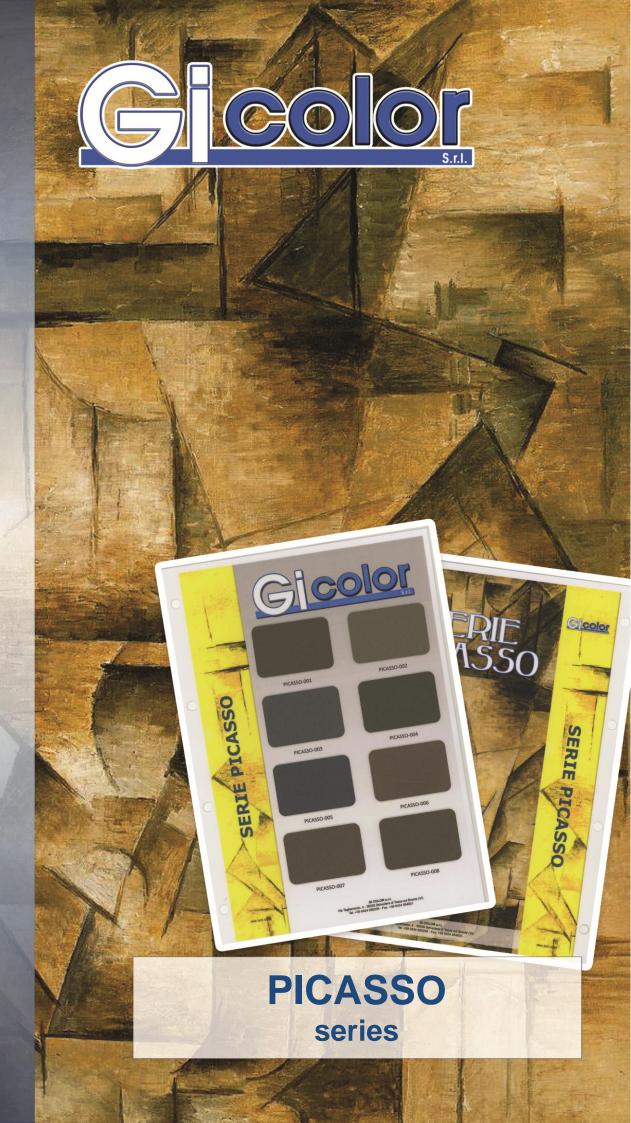
Accelerated Weathering Test





MRK-010-0289

TEST DI INVECCHIAMENTO ACCELERATO:

Invecchiamento accelerato

Tutti i campioni vengono sottoposti all'irraggiamento di lampade allo xenon ed a cicli umido/secco mediante speciali apparecchiature (Q-Sun, SolarBox). Tali apparecchiature vengono utilizzate in conformità agli standard internazionali imposti dalla norma ISO 11341 rispettando le seguenti impostazioni:

- intensità luminosa, 550±20W/m² (290-800 nm)
- temperatura del pannello nero, 65 ± 5°C
- ciclo umido 18 minuti
- ciclo secco 102 minuti

Alla fine dei test, che normalmente hanno una durata minima di 1000 ore, viene valutata la variazione di brillantezza (EN ISO 2813, con angolo di incidenza 60°) ed il cambiamento di colore ΔE (metodo CIELAB ISO 7724/3) rispetto ai valori di partenza. Questo permette di stabilire, in maniera parametrizzata, l'invecchiamento delle varie superfici testate. La corretta conduzione dei test viene verificata attraverso l'utilizzo di campioni in bianco ad invecchiamento noto.





Figure: apparecchiature per l'invecchiamento accelerato. Pictures: equipment for the Accelerated Weathering Test

Accelerated Weathering Test

All samples are exposed to radiation of Xenon lamps and to wet/dry cycles by special equipment (Q-Sun, SOLARBOX). Such equipment is used in accordance with international standards imposed by norm ISO 11341, i.e. complying with the following settings:

- light intensity, $550 \pm 20 \text{ W} / \text{m}^2 (290-800 \text{ nm})$
- black panel temperature, 65 ± 5 ° C
- wet cycle 18 minutes
- dry cycle 102 minutes.

At the end of the test, whose minimum duration is 1000 hours, Residual Gloss (EN ISO 2813, with an angle of incidence 60°) and Colour Variation ΔE (CIELAB method - ISO 7724 / 3) are measured comparing pre-test values. In this way it is possible to evaluate the aging of surfaces using standard indexes. The accuracy of the test is verified through the use of samples in white, whose aging behaviour is know.

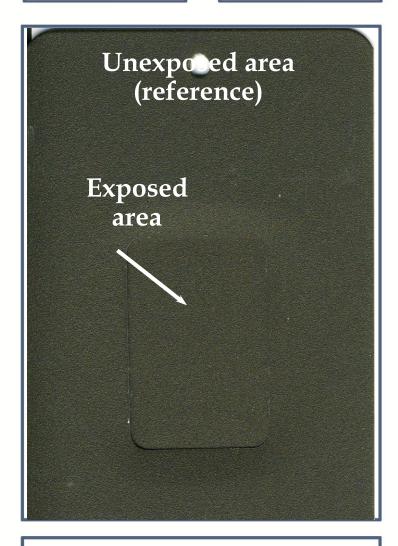
ID Test Report	PROD. VERNIC	COD. FILM	PROG. N°	IMMAGINI
TR-IA-238-213	Picasso-001	solo base	238	
TR-IA-239-2013	Picasso-002	solo base	239	
TR-IA-240-2013	Picasso-003	solo base	240	
TR-IA-241-2013	Picasso-004	solo base	241	
TR-IA-242-2013	Picasso-005	solo base	242	
TR-IA-243-2013	Picasso-006	solo base	243	
TR-IA-244-2013	Picasso-008	solo base	244	











LAB. ID NUMBER: 32176
POWDER COATING: Picasso-001
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation, after 1046 hours on sample.

Technical Opinion:

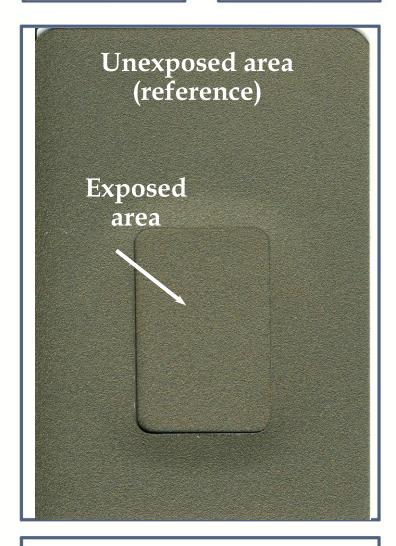
Suitable for OUTDOOR USE











LAB. ID NUMBER: 32177
POWDER COATING: Picasso-002
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation , after 1046 hours on sample.

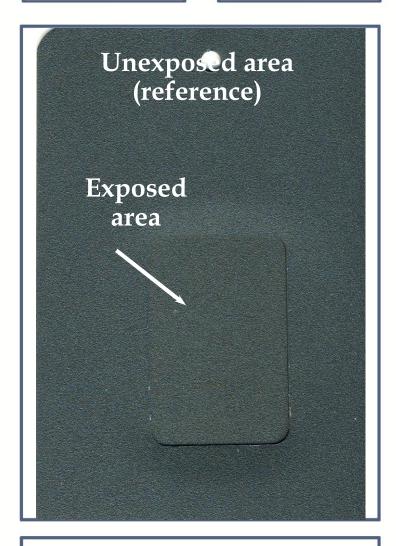
Technical Opinion:

Suitable for OUTDOOR USE









LAB. ID NUMBER: 32178
POWDER COATING: Picasso-003
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation , after 1046 hours on sample.

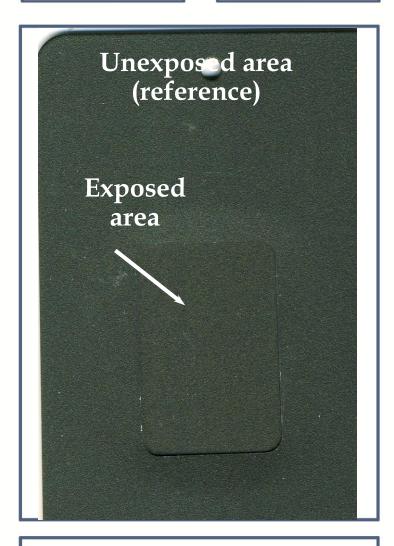
Technical Opinion:

Suitable for OUTDOOR USE









LAB. ID NUMBER: 32179
POWDER COATING: Picasso-004
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation, after 1046 hours on sample.

Technical Opinion:

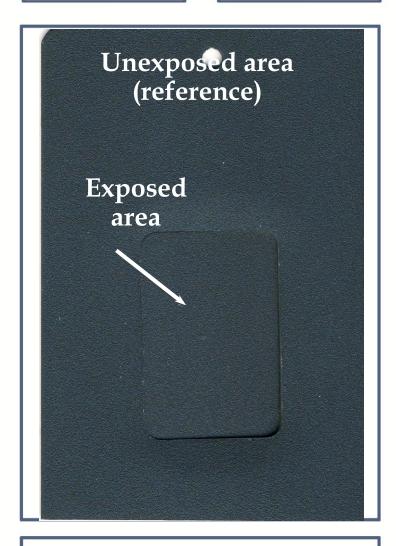
Suitable for OUTDOOR USE











LAB. ID NUMBER: 32180
POWDER COATING: Picasso-005
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation, after 1046 hours on sample.

Technical Opinion:

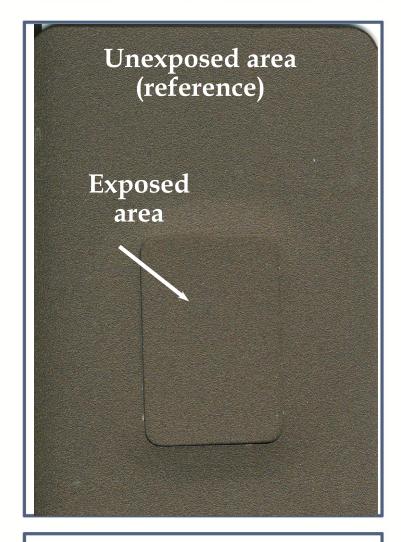
Suitable for OUTDOOR USE











LAB. ID NUMBER: 32181
POWDER COATING: Picasso-006
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation, after 1046 hours on sample.

Technical Opinion:

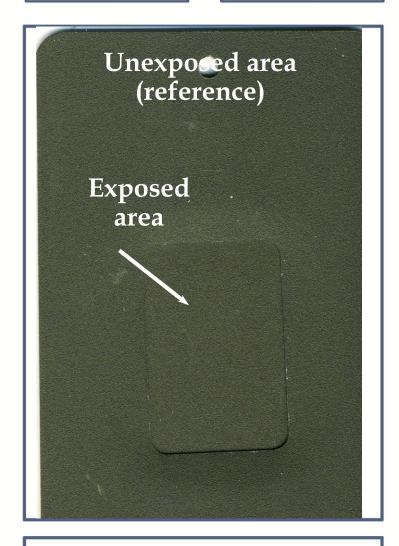
Suitable for OUTDOOR USE











LAB. ID NUMBER: 32183
POWDER COATING: Picasso-008
HEAT TRANSFER FILM: -Grey scale: 5/4
residual gloss: 100%

Technical Remarks

Excellent residual gloss and very low colour variation, after 1046 hours on sample.

Technical Opinion:

Suitable for OUTDOOR USE