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METHACRYLATE

Guide to Acryl+
Its many qualities and commercial advantages.





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3/20 GLOSSY METHACRYLATE, CATAS TEST OF MIGRATION TO FOOD



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KRONO SYSTEM S.R.L.

VIA SALI 25 31040 MANSUE (TV)

TECHNICAL REPORT nº: 140433 / 1 del 23/04/12

Date received: 27-03-12 Date of test: 13-04-12 Date of issue: 23-04-12

ACRILICO-LUCIDO Sample name:

Migration of certain elements EN 71-3:2002

Sample:

Coated panel

Analytical methods:

inductively coupled plasma optical spectrometry ICP-OES.

SOLUBLE ELEMENT		CONCENTRATION	LIMITS	
Antimony	mg/kg	< 0,5	60	
Arsenic	mg/kg	< 0,5	25	
Barium	mg/kg	< 10	1000	
Cadmium	mg/kg	< 0,5	75	
Chromium	mg/kg	< 5	60	
Lead	mg/kg	< 5	90	
Mercury	mg/kg	< 0,5	60	
Selenium	mg/kg	< 0,5	500	

RESULTS:

Tested sample complies with requirements of the paragraph 4.1 of EN 71-3 standard.

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4/20 GLOSSY METHACRYLATE, CATAS SCRATCH RESISTANCE TEST

Date rece Date of te	st: 12-06-08	VI 31	RONO SYSTEM S.R.L. A SALI 25 040 MANSUE' (TV) ALY	
Date of iss Sample n	27-3701 VI	estito acrilico (ABS + PMMA)		
	Resistance	e to scratching UNI	9428:1989	
	Test results:			
	Load N		Remarks	
	1,1		///	
	Test level reached		4	
	Notes: - Chemical analysis of the tested r	naterial has not been carried	out.	
	Notes: - Chemical analysis of the tested r	naterial has not been carried	out.	
		material has not been carried	out.	
		material has not been carried	out.	



5/20 **GLOSSY METHACRYLATE, CATAS IMPACT RESISTANCE TEST**



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KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE' (TV) ITALY

TEST REPORT

93516/2

Date received: 17-05-08 06-06-08 Date of test: Date of issue: 19-06-08

Sample name:

Pannello per mobili rivestito acrilico (ABS + PMMA)

Assessment of resistance to impact ISO 4211-4:1988

Test results:

Dropping height mm	ø of impact mark mm	Evaluation	Remarks
10	1	4	slight mark with no cracking
25	1	4	slight mark with no cracking
50	1	4	slight mark with no cracking
100	1	4	slight mark with no cracking
200	4,2	4	slight mark with no cracking
400	5,3	4	slight mark with no cracking

lead of Department Dott. Franco Bulian

Managirig Director dott And

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6/20 GLOSSY METHACRYLATE, CATAS LIGHT RESISTANCE TEST



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KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE' (TV) ITALY

TEST REPORT

93516/5

Date received: 17-05-08
Date of test: 16-06-08
Date of issue: 19-06-08

Sample name:

Pannello per mobili rivestito acrilico (ABS + PMMA)

Light fastness UNI EN 15187:2007

Atlas C.i. 3000

Xenon arc lamp 1,25 W/mq

borosilicate

soda-lime

55 ± 2 °C

automatic

Apparatus:
Radiation source:
Irradiance at 420 nm:
Inner filter:
Outer filter:

Outer filter:
Black panel temperature:
Irradiance determination system:

Relative humidity: Blue wool standard assessment: N. of observers: 50 ± 10% visual

Test results:

Exposure (hours)	Grey scale	Remarks	
20	5	///	

Light fastness:

Grey scale	Blue wool standard N. 6
>4	>6

Notes:

- Chemical analysis of the tested material was not carried out.

Head of Department Dott. Franco Bulian

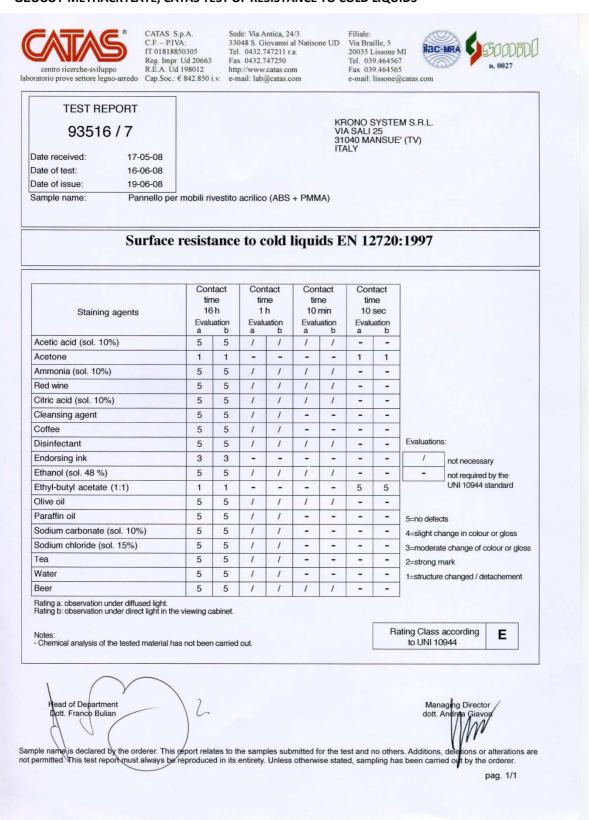
Managing Director dott. Andrea Giavor

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7/20 GLOSSY METHACRYLATE, CATAS TEST OF RESISTANCE TO COLD LIQUIDS





8/20 GLOSSY METHACRYLATE, CATAS TEST OF RESISTANCE OF EDGES TO WATER



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KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE' (TV) ITALY

TEST REPORT

93516 / 4

17-05-08 Date received: Date of test: 04-06-08 Date of issue: 19-06-08

Sample name:

Pannello per mobili rivestito acrilico (ABS + PMMA)

Determination of edge resistance to water UNI 10460:1995

Test results:

Test period (minutes)	Remarks	
15	No detachment of the edge nor swelling of the panel.	
30	No detachment of the edge nor swelling of the panel.	
60	No detachment of the edge nor swelling of the panel.	
120	No detachment of the edge nor swelling of the panel.	
240	No detachment of the edge nor swelling of the panel.	

Test level reached	5
rest level reached	3

Notes: Chemical analysis of the tested material has not been carried out.

d of Department Dott. Franco Buliar

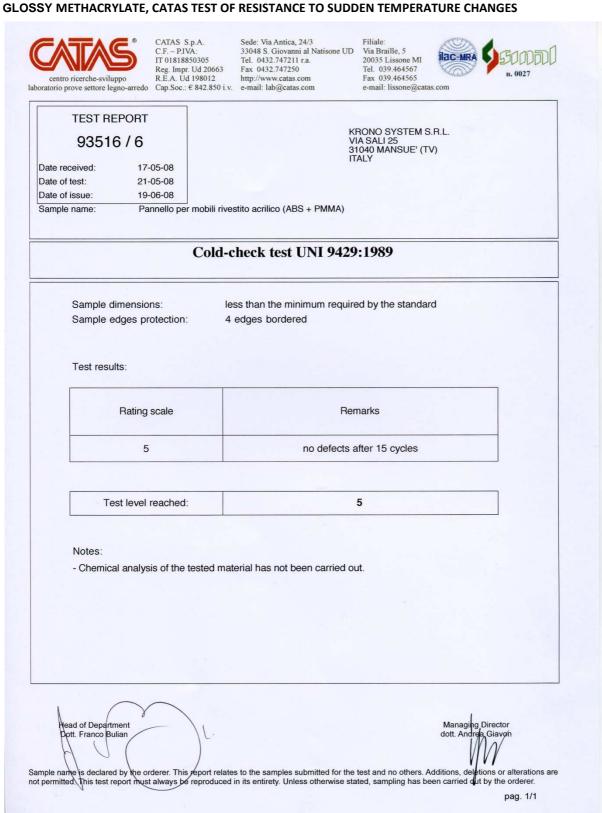
Managing Director dott. And Giavon

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9/20 GLOSSY METHACRYLATE, CATAS TEST OF RESISTANCE TO SUDDEN TEMPERATURE CHANGES





10/20

GLOSSY METHACRYLATE, CATAS TEST OF RESISTANCE TO DAMP-DRY HEAT



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RAPPORTO DI PROVA

102625 / 1

Ricevimento campione: 17-03-09 Esecuzione prova: 26-03-09 28-04-09 Emissione rapporto:

Denominaz.campione: ANTA IN ACRILICO NERO LUCIDO A3

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE' (TV)

Resistenza a cicli umido-secco - PTP 25:1995

Modalità

La prova consiste nel porre il campione tal quale in climi uniformi successivi per un tempo prefissato.

Le condizioni della camera di prova, concordanti con la norma UNI 10477/95, sono le seguenti:

Fase umida	23 ± 2 °C	90 ± 5 % u.r.	Durata 15 giorni
Fase secca	23 ± 2 °C	35 ± 5 % u.r.	Durata 15 giorni

Risultati della prova:

Al termine della prova non si riscontrano deformazioni apprezzabili dell'anta né difetti superficiali della finitura.

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La denominazione del campione è quella dichiarata dalla Ditta richiedente. Questo rapporto di prova riguarda il campione sottoposto a prova e solo esso. Aggiunte, cancellazioni o alterazioni non sono ammesse. Il rapporto di prova non può essere riprodotto parzialmente. Salvo diversa indicazione, il campionamento è stato effettuato dal cliente. pag. 1/1



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MATT METHACRYLATE, CATAS SCRATCH RESISTANCE TEST



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 Tel. 039/464567

Fax 039.464565 e-mail: lissone@cstas.com

TEST REPORT

162864 / 1

Date received: 31-07-13 Date of test: 01-08-13 02:08:13 Date of Issue:

Doors, shelves Acryl Matt (ABS + PMMA) Sample name:

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV) ITALIA

Resistance to scratching UNI EN 15186:2012, met. B

Apparatus: Taber mod. 502

Test results:

Load N	Remarks
0,8	M

- Chemical analysis of the tested material has not been carried out.
- As the Customer required, conditioning of the sample was not performed.

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12/20 MATT METHACRYLATE, CATAS LIGHT RESISTANCE TEST



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TEST REPORT

162864/3

Date received: 31-07-13 Date of test: 31-07-13 Date of legue: 02-08-13

Doors, shelves Acryl Matt (ABS + PMMA) Sample name:

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV)

Light fastness UNI EN 15187:2007

Atlas C.i. 3000 Apparatus: Radiation source: Xenon arc lamp Irradiance at 420 nm: 1,25 W/mg borosilicate Inner filter: Outer filter: soda-lime Black panel temperature: 55 ± 2 °C Irradiance determination system: automatic Relative humidity: 50 ± 10%

Blue wool standard assessment: visual N. of observers:

Test results:

Exposure (hours)	Grey scale	Remarks
20	5	M

Light fastness:

Grey scale	Blue wool standard N.
>4	> 6

- Chemical analysis of the tested material was not carried out.

- As the customer required, conditioning of the sample was not carried out.

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13/20 MATT METHACRYLATE, CATAS TEST OF RESISTANCE TO TEMPERATURE CHANGES



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TEST REPORT

162864 / 4

Date received: 31-07-13 Date of test: 05-08-13 17-09-13 Date of issue:

Sample name:

Doors, shelves Acryl Matt (ABS + PMMA)

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV)

Cold-check test UNI 9429:1989

Sample dimensions: 315 x 315 Sample edges protection: 4 edges

Test results:

Rating scale	Remarks
5	No defects after 15 cycles.

Test level reached: 5

Notes:

- Chemical analysis of the tested material has not been carried out.

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14/20 MATT METHACRYLATE, CATAS TEST OF RESISTANCE TO COLD LIQUIDS



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Fax 039.464565

TEST REPORT 162864 / 5

Date received: 31-07-13 Date of test: 27-08-13 Date of Issue: 30-08-13

Sample name: Doors, shelves Acryl Matt (ABS + PMMA)

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV)

Surface resistance to cold liquids EN 12720:2009

Staining agents	Contact time				
	16 h	1 h	10 min	10 sec	
Acetic acid (sol. 10%)	5	1	1	-	
Acetone	1	-	-	2	
Ammonia (sol. 10%)	5	1	1	-	
Red wine	5	1	1	-	
Citric acid (sol. 10%)	5	1	1	-	
Cleansing agent	5	1	-	-	
Coffee	5	1	-	-	
Disinfectant	5	1	- 1	-	
Endorsing ink	2	-	-	-	
Ethanol (sol. 48 %)	4	5	1	-	
Ethyl-butyl acetate (1:1)	1	-	-	2	
Olive oil	5	1	1	-	
Paraffin oil	5	1	-	-	
Sodium carbonate (sol. 10%)	5	1	-	-	
Sodium chloride (sol. 15%)	5	1	-	-	
Tea	5	1	-	-	
Water	5	1	-	-	
Beer	5	1	1	-	

Evaluations

not necessary not required by the UNI 10944 standard

5 = no change

4 = minor change (only visible under reflected light)

3 = moderate change (visible from several viewing directions)

2 = significant change in colour or gloss,

slight change of structure

1= strong change

- Chemical analysis of the tested material has not been carried out.
- The staining agents and the contact time are according to UNI 10944 2001 standard.
- Conditioning period: from 31/07/2013 to 27/08/2013.

CLASSIFICATION NOT COVERED BY ACCREDITATION:

Rating Class according

to UNI 10944 E

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15/20 MATT METHACRYLATE, CATAS TEST OF RESISTANCE TO DAMP HEAT



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TEST REPORT

162864 / 6

Date received: 31-07-13 Date of test: 01-08-13 Date of Issue: 02-08-13

Sample name: Doors, shelves Acryl Matt (ABS + PMMA)

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV)

Surface resistance to wet heat EN 12721:2009

Test results:

Temperature °C	Rating	Remarks	
55	5	No visible changes.	
70	5	No visible changes.	
85	4	Slight change in gloss and colour.	
100	1	Strong mark with degradation of the surface.	

CLASSIFICATION NOT COVERED BY ACCREDITATION:

Notes:

- Chemical analysis of the tested material has not been carried out.
- The temperatures are according to UNI 10944:2001 standard.
- As the Customer required, the conditioning of the sample was not performed.

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16/20 MATT METHACRYLATE, CATAS TEST OF RESISTANCE TO DRY HEAT



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C.Soc. € 1.003.650,00 i.v. e-mail: lab@catas.com e-mail: fissone@cat

Sede: Via Antica, 24/3

TEST REPORT

162864 / 7

Date received: 31-07-13 Date of test: 01-08-13 Date of issue: 02-08-13

Doors, shelves Acryl Matt (ABS + PMMA) Sample name:

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV) ITALIA

Surface resistance to dry heat EN 12722:2009

Test results:

Temperature °C	Rating	Remarks	
56	5	No visible changes.	
70	5	No visible changes.	
85	5	No visible changes.	
120	1	Strong mark with degradation of the surface.	
160	1	Strong mark with degradation of the surface.	

CLASSIFICATION NOT COVERED BY ACCREDITATION:

Performance class reached D according to UNI 10944

Notes:

- Chemical analysis of the tested material has not been carried out.
- The temperatures are according to UNI 10944:2001 standard.
- As the Customer required, the conditioning of the sample was not performed.

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17/20 GLOSSY AND MATT METHACRYLATE, TEST OF EMISSION OF VOLATILE ORGANIC COMPOUNDS INDOORS



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TEST REPORT

157660 / 1

12-04-13 Date received: Date of test: 07-05-13 Date of issue: 11-06-13

Sample name:

Anta Metacrilato (ABS+ PMMA)

KRONO SYSTEM S.R.L. VIA SALI 25 31040 MANSUE (TV)

Volatile organic compounds emission in test chamber - EN ISO 16000-9:2006

TESTED MATERIA

Coated boards.

CHAMBER DESCRIPTION

The dimensions of the glass and stainless steel chamber are m 1,25 x 1,00 x 0,80. The inlet air is cleaned by an activated carbon filter; the constancy of the air exchange is given by using an electronic Mass Flow Controller.

A fan system maintains an intensive air mixing in the chamber.

TEST CONDITIONS

SAMPLE SURFACE 1,0 m² AIR TEMPERATURE 23±1°C 50±5 % R. H. AIR HUMIDITY AIR EXCHANGE RATE 1,0 m3/h LOADING FACTOR 1 m²/(m³/h)

ANALYTICAL PROCEDURES

The determination was carried out according to ISO 16000-6:11 (active sampling on TENAX TA sorbent, thermal desorption and gaschromatography using Mass detector. The air samples were taken at 72 hours and 28 days after the start of the test.

TEST RESULTS

The test results are reported in the attached following sheet.

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TEST REPORT 157660 / 1 Date of issue: 11/06/13

Sample name: Anta Metacrilato (ABS+ PMMA)

COMPANY	Mansuè (TV)		
DATE OF TEST	07/05/2013		
VOLATILE ORGANIC	UNITS	CONCENTRATION	
COMPOUNDS		after 72 hours	after 28 day
Formaldehyde *	$\mu g/m^3$	9	5
Acetaldehyde *	$\mu g/m^3$	17	4
Toluene	$\mu g/m^3$	2	< 2
Tetrachloroetilene	$\mu g/m^3$	< 2	< 2
Ethylbenzene	$\mu g/m^3$	< 2	< 2
Xilenes isomers	$\mu g/m^3$	< 2	< 2
1,2,4 Trimethylenzene	$\mu g/m^3$	< 2	< 2
1,4 Dichlorobenzene	$\mu g/m^3$	< 2	< 2
2 Butoxyethanol	$\mu g/m^3$	< 2	< 2
Styrene	$\mu g/m^3$	< 2	< 2
i Propanol	$\mu g/m^3$	4	< 2
Cyclohexane	$\mu g/m^3$	4	< 2
Aceton	$\mu g/m^3$	7	3
Hexamethylcyclotrisiloxane #	$\mu g/m^3$	2	< 2
Octamethylcyclotetrasiloxane #	$\mu g/m^3$	2	< 2
alpha Methylstyrene	$\mu g/m^3$	3	< 2
Dodecamethylcyclohexasiloxane	$\mu g/m^3$	5	< 2
Acetic acid	$\mu g/m^3$	5	4
Total V. O. C. #	$\mu g/m^3$	22	5
NOTES:			
* determinated with dinitropheny	lhydrazine and HPL	C method.	
# quantified as toluene.			
•			

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19/20 TEST OF EMISSION OF VOLATILE ORGANIC COMPOUNDS INDOORS, TECHNICAL ILLUSTRATION

RE: Catas test report No. 157660/1 dated 11/06/2013, Emissions of Volatile Organic Compounds, indoor method UNI EN ISO 16000-9: 2006 + UNI EN ISO 16000-6: 2011.

This test report simulates VOC emissions in the home, that is to say what contaminates the environment in which people live. The test was commissioned to Catas following the issue of new European standards on the subject of emissions in a household environment, which are much more restrictive than the previous ones. Such standards are designed to safeguard the health of consumers/users. Some European member states, including France and Germany, will begin to apply these standards in September 2013.

Test result

Without going into all the compounds measured, as values of ≤ 2 are not significant, we wish to point out that that the values for certain substances considered extremely harmful to health are 10 to 160 times lower than the limits established by national law and standards or by important international enterprises such as Ikea.

Type of VOCs	Standard value or required by Ikea	Values read on Krono System door
Formaldehyde	100 microgrammes	9÷5 micrograms
Total VOCs	a) 1,000 micrograms in France b) 600 micrograms in Germany	22÷5 micrograms



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ANTIBACTERIAL METHACRYLATE CERTIFICATE

SANITIZED AG

Results

Description of sample

2013-1201-01 Sample number: Received: 08.10.2013 Business: POLYMER Type: Quality control

ABS/PMMA A4 Sheet White Matt Identification:

Main Component: Minor Component: ABS PMMA Appearance: Field of Application: White Matt

Furniture Components Applications

Sanitized Products: Antibacterial Declared quantity: n.d.

Test results of the SANITIZED-laboratory

Quantitative analysis for determination of the bacteriostatic activity:					
Method	Test point	Activity	Reduction in %	Evaluation	
	Staphylococcus aureus (MRSA) ATCC 33592	3,20	99,94	Good effect	

Customer: Krono System srl, IT 31040 Mansué Test order No.: 2013-1201 / 16.10.2013