

**Manufacturer**

Arborite  
385 Lafleur, Lasalle (Québec), H8R 3H7  
Web site : [www.arborite.com](http://www.arborite.com) - Phone: 1-800-996-0366  
Alternate manufacturing facility – Fletcher, NC

**Product Description**

ArboChem is a high-pressure laminate and a solid composite engineered for surfaces commonly exposed to acids, solvents, general reagents and cleaning agents. ArboChem is suitable for laboratory work surfaces, fume hood decks, fume hood liner panels, pegboards (drying racks), reagent racks, commercial countertops, cabinet drawer fronts, locker drawers, shelving, window sills, toilet partitions, and decorative casework components.

ArboChem laminate is available in 1 postforming grade and in 5 compact laminate grades.

**Coordinated Products**

ArboChem products can be color-coordinated with Arborite compact grade and Arborite thin grade laminates. Please note that the technology used in the manufacture of ArboChem results in a mild color differentiation between ArboChem and Arborite Compact Laminates and thin grade laminates. To facilitate color-coordination, custom samples are available. Send requests to [samples@arborite.com](mailto:samples@arborite.com), or call 1-800-361-8712. You may also contact your local sales representative.

**Arborite ArboChem Color Availability**

P500	P885	P886	P999	S405	S406	S407	S431	S463	S466
S486	S513	S548	S550	W403					

**ArboChem Surface Texture**

Texture	Surface Gloss Level
Matte (MA) Finish –a fine beaded texture with a slight sheen	14-18

**ArboChem Postforming Thickness**

Product Type	Imperial Measure (In.)	Metric Measure (Mm)
AC40	0.034" ± 0.005"	0.86 mm ± 0.127"

**Standard Panel Size for ArboChem Postforming Laminates**

Imperial Measure (feet)	Metric measure (mm)
4' x 8'	1220 mm x 2440 mm
5' x 10'	1525 mm x 3050 mm
5' x 12'	1525 mm x 3660 mm

**ArboChem Compact Laminate Thickness\***

Product Type	Imperial Measure (In.)	Metric Measure (Mm)	Thickness Tolerance	Lbs/ Sq.Ft	Description
SO13 (1/8")	0.125"	3.2 mm	± 0.008"	0.9	Double Faced
SO25 (1/4")	0.250"	6.4 mm	± 0.012"	1.8	Double Faced
SO50 (1/2")	0.500"	12.7 mm	± 0.021"	3.6	Double Faced
SO75 (3/4")	0.750"	19.0 mm	± 0.027"	5.4	Double Faced
S100 (1")	1.00"	25.4 mm	± 0.033"	7.2	Double Faced

\* Thickness tolerance according to NEMA LD3-2005 for Compact Laminate grade (CGS)

**ArboChem Compact Laminates Standard Panel Sizes**

Imperial Measure (feet)	Metric measure (mm)
4' x 8'	1220 mm x 2440 mm
5' x 10'	1525 mm x 3050 mm
5' x 12'	1525 mm x 3660 mm

**ArboChem Compact Laminates Texture Availability**

Texture	Surface Gloss Level
Matte (MA) Finish –a fine beaded texture with a slight sheen	14-18

**ArboChem Compact Laminates Color Availability**

P500	P885	P886	P999	S405	S406	S407	S431	S463	S466
S486	S513	S548	S550	W403					

**ArboChem Postforming Technical Data**

NEMA Test	ArboChem Values	NEMA HGP Values
Scratch Resistance	2.5 Newtons	N/A
Wear Resistance Sxxx colours ONLY All other Arborite colors	≥ 1500 cycles ≥ 700 cycles	400 cycles minimum
Boiling water Resistance	No Effect	Slight Effect
High Temperature Resistance	Slight Effect	Slight Effect
Radiant Heat Resistance	200	100 minimum
Stain Resistance - Reagents 1 - 10 - Reagents 11 - 15	No Effect No Effect	No Effect Moderate Effect
Dimensional Change Machine Direction Cross Direction	0.5 % 0.8 %	1.1 % maximum 1.4 % maximum
Ball Impact Resistance	60 " (1524 mm)	30 " (508 mm)
Cleanability	10	20 maximum
Blister Resistance	70 seconds	55 seconds
Formability Face Back	5/8 " (16 mm) 3/16 " (5 mm)	5/8 " (16 mm)
Appearance	No ABC defects	No ABC defects

## **Arborite ArboChem Laminate - Chemical Reagent Staining Effect**

### **Acids:**

1. Acetic Acid (all concentrations)
2. Aqua Regia
3. Chromic Trioxide (Chromic Acid Cleaning Solution) \*
4. Formic Acid (all concentrations)
5. Glacial Acetic Acid 99% (concentrated)
6. Hydrofluoric Acid 48% (concentrated)\*
7. Hydrochloric Acid (all concentrations)
8. Nitric Acid (all concentrations)\*\*
9. Perchloric Acid (concentrated)
10. Phosphoric Acid (all concentrations)
11. Picric Acid 1.2% (0.05M)
12. Sulfuric Acid (all concentrations)\*\*
13. Tannic Acid (sat.)
14. Uric Acid (sat.)

### **Solvents:**

15. Acetone
16. Amyl Acetate
17. Amyl Alcohol
18. Butyl Alcohol
19. Carbon Disulfide
20. 15. Carbon Tetrachloride
21. Chlorobenzene
22. Chloroform
23. Cresol
24. Dimethylformamide
25. Dioxane
26. EDTA
27. Ethyl Acetate
28. Ethyl Alcohol
29. Formaldehyde
30. Methanol
31. Methylene Chloride

32. Methyl Ethyl Ketone
33. Naphthalene
34. n-Hexane
35. Phenol (all concentrations)\*
36. Tetrahydrofura
37. Toluene
38. Trichloroethane
39. Xylene

### **Bases:**

40. Ammonium Hydroxide (all concentrations)
41. Sodium Hydroxide (all concentrations)\*\*
42. Sodium Sulfide 15%

### **General Reagents:**

43. Alconox (Lab. Detergent)
44. Aluminox
45. Ammonium Phosphate
46. Aromatic Ammonia
47. Benedicts Solution
48. Calcium Hypochlorite (concentrated)
49. Camphorated para-chlorophenol\*
50. Cellosolve
51. Copper Sulfate
52. Ethylene Glycol
53. Eucalyptol
54. Formalin
55. Gasoline
56. Hydrogen Peroxide 3%
57. Iodine
58. Karl Fisher Reagent
59. Kerosene
60. Lactated Ringers
61. LysoI™
62. Methyl Methacrylate
63. Mineral Oil
64. Monsel's Solution (Ferric Subsulfate)
65. Naphtha
66. Petroleum Jelly

67. Phosphate Buffered Saline (PBS)
68. Pine Oil
69. Potassium Permanganate
70. Povidone Iodine
71. Procaine
72. Quaternary Ammonia Compounds
73. Silver Nitrate
74. Sucrose 50%
75. Sodium Azide
76. Sodium Chromate
77. Sodium Hypochlorite 5%
78. Sodium Thiocyanate
79. Thymol & Alcohol
80. Tincture of Mercurochrome
81. Tincture of Iodine
82. Tincture of Merthiolate
83. Trisodium Phosphate 30%
84. Urea
85. Vegetable Oils
86. Water
87. Zephiran Chloride
88. Zinc Chloride
89. Zinc Oxide Ointment

### **Stains and Indicators:**

90. Ag Eosin Bluish 5% in Alcohol
91. Bromothymol Blue
92. Cresol Red
93. Crystal Violet
94. Gentian Violet 1%
95. Gram Stains
96. Malachite Green
97. Methyl Orange
98. Methyl Red
99. Methylene Blue
100. Nigrosine
101. Phenolphthalein
102. Safranin O
103. Sudan III
104. Thymol Blue
105. Wright's Blood Stain

\* Causes slight change of gloss or color.

\*\*Causes slight damage, with degree of damage proportionate to length of exposure and concentration.

Other items leave no effect

*Test procedure: Listed materials were placed in contact with Arborite ArboChem surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The effects of staining are color and pattern dependent. Request a sample for evaluation and chemical resistance testing*

## **Limitations**

Arborite ArboChem panels offer special protection for all kinds of laboratory work surfaces. However, no one material is suitable for all possible conditions; its properties should be checked for suitability under the specific conditions of each installation. The information provided herein is not intended for or to guarantee specific properties.

## **Standards & Approvals**

Arborite laminates meet or exceed standard tests set by:

- The National Electrical Manufacturers Association "ANSI/NEMA LD 3-2005", for high pressure decorative laminates.

The purpose of this Standards Publication is to provide standard test methods and performance values for high-pressure decorative laminates.

- The GREENGUARD Environmental Institute™ has awarded its GREENGUARD Indoor Air Quality Certification to Arborite. All Arborite laminate product types were tested under the stringent GREENGUARD Standards for low-emitting products. All GREENGUARD Indoor Air Quality Certified® products ensure minimal impact on the indoor environment. For a copy of the certificate, visit [www.greenguard.org](http://www.greenguard.org).
- Arborite is certified ISO 9001:2008 Quality Management System.
- Arborite is a member of the USGBC (US Green Building Council).
- Arborite is a member of the CaGBC (Canada Green Building Council).

## **Care and Maintenance**

The decorative surface may be cleaned with warm water and mild soaps, such as those used for hands or dishes. The use of cleansers that contain abrasives, acids or alkalis may damage the decorative surface. (Note: See chemical and Stain Resistance section for more detailed information on chemical and stain resistance results.) Stubborn stains may be removed with a 1.5 minute exposure to hypochlorite bleach, such as Clorox®, followed by a clean water rinse.

## **Warranty**

Arborite, division of Wilsonart Canada ULC, warrants that, under normal use and service, the material and workmanship of its products shall conform to the standards set forth on the applicable technical data sheets for a period of twelve (12) months from the date of sale to the first consumer purchaser. Dealers and distributors are provided with the technical data sheets which contain specific standards of performance for the products. In the event that an Arborite product does not perform as warranted, the first purchaser's sole remedy shall be limited to repair or replacement of all or any part of the product which is defective, at the manufacturer's sole discretion.

This warranty applies only to product :

1. In its original installation; and
2. Purchased by the first consumer purchaser.

This warranty is not transferable, and expires upon resale or transfer by the first consumer purchaser.

This warranty shall not apply to defects or damage arising from any of the following :

1. Accidents, abuse or misuse;
2. Exposure to extreme temperature;
3. Improper fabrication or installation; or
4. Improper maintenance.

**NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE MADE. UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY LOSS OR DAMAGE ARISING FROM THE PURCHASE, USE OR INABILITY TO USE THIS PRODUCT, OR FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. NO FABRICATOR, INSTALLER, DEALER, AGENT OR EMPLOYEE OF ARBORITE, A DIVISION OF WILSONART CANADA ULC, HAS THE AUTHORITY TO MODIFY THE OBLIGATIONS OR LIMITATION OF THIS WARRANTY.**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state; therefore, some of the limitations stated above may not apply to you. It is to your benefit to save your documentation upon purchase of a product.

**Specification Form:**

Surface shall be Arborite ArboChem Postforming Laminate

Produced by Arborite,

Type: AC40 (0,034")

Surface

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Finish

Code: MA

Name: MATTE

**Specification Form:**

Surface shall be Arborite ArboChem Compact Laminate

Produced by Arborite,

Type: S013 (1/8"), S025 (1/4"), S050 (1/2"), S075 (3/4"), S100 (1")

Surface

Color Number: \_\_\_\_\_

Color Name: \_\_\_\_\_

Finish

Code: MA

Name: MATTE