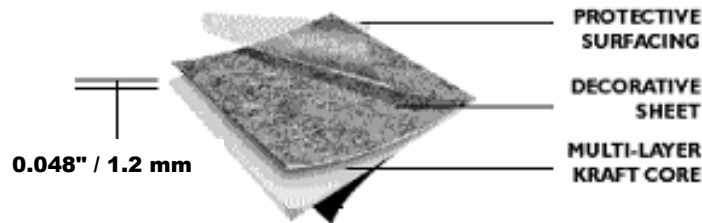


ARBORITE® FLEX 4 – HIGH PRESSURE DECORATIVE LAMINATES

Arborite® decorative laminates are a high pressure thermoset plastic surfacing material. It consists of multi layers of kraft (core) papers impregnated with phenolic resins, covered by a melamine impregnated decorative surface. These layers are then consolidated into a solid sheet under the effect of high temperature and pressure.



BASIC DECORATIVE HIGH PRESSURE LAMINATES – for horizontal and vertical applications

Arborite® Flex4 decorative laminates are engineered to improve the product life cycle for wear, chemical and stain resistance under normal use and conditions. Available in 3 grades, Arborite® Flex4 laminates offer 4 exceptional performance features, and are available in Arborite's expressive range of colors.

Arborite® Flex 4 grades:

- 0.028" / (0.7 mm) - Arborite® laminate type **A3**
- 0.039" / (1.0 mm) - Arborite® laminate type **A4**
- 0.048" / (1.2mm) - Arborite® laminate type **A5**

USE:

For all types of flatwork applications:

- work surfaces, counters, cabinets, furniture, equipment, food service, displays, caseworks, doors, walls, ceilings, window sills and frames, partition systems, enclosures, shelving and trims.
- suitable for most commercial, institutional and residential applications.

Typical uses by grade:

A3 (0.028") for light duty applications - most vertical surfaces such as interior doors, cabinet fronts, wall paneling and similar surfaces.

A4 (0.039") & A5 (0.048") for heavier duty applications – work surfaces, counters, table tops, cabinets, furniture, wall paneling, doors, window sills and similar surfaces.

Arborite® Flex4 – Features

- **Postforming Feature** – is the operation of forming decorative laminate into simple bends or shapes; Arborite® Flex4 decorative laminates provide flexibility as an attributed characteristic of our decorative high pressure laminate. This is done by uniformly heating the laminate to a temperature of approximately 150-165°C (300-325°F) and pressing or bending it into the required shape before cooling. This requires rigidly controlled conditions and special equipment. Practically any shape consisting of simple bends can be fabricated.

A3 -0.028"/0.7mm
will typically
postform to a
minimum radius of
5/16" face (outside
bend)

A4 -0.039"/1.0mm
will typically
postform to a
minimum radius of
8/16" face (outside
bend)

A5 -0.048"/1.2mm
will typically
postform to a
minimum radius of
10/16" face (outside
bend)

- **Superior Wear Resistance** – provides a tough, durable barrier against abrasion. Exceeds NEMA wear standards by up to 400% (color/pattern dependant).
- **Superior Stain Resistance** – a unique formulation which provides protection against :
Staining agents such as : alcohol, vegetable cooking oil, yellow mustard, gasoline (naphta), coffee, vinegar, household ammonia solution (10%), milk, blue ink, tomato ketchup, citric acid solution (10%), povidone iodine (10%).
Superficial staining agents such as: wax crayon, black shoe polish paste, black permanent marker and #2 pencil.
- **Superior Chemical Resistance** – provides added resistance against the potentially damaging effects of chemical agents. Please refer to the chart below for a summary of test results for the most commonly used chemicals and staining agents.

Arborite® Flex4 - Chemical Reagent Staining Effects

Acetic Acid (all concentrations).....	SL/E	Methyl Methacrylate	NE
Acetone.....	SL/E	Methyl Orange	NE
Ag Eosin Bluish 5% in Alcohol.....	NE	Methyl Red.....	NE
Alconox	NE	Mineral Oil.....	NE
Aluminon.....	NE	Monsel's Solution	NE
Ammonium Hydroxide (all concentrations).....	NE	Naphtha.....	NE
Ammonium Phosphate.....	NE	Naphtalene	NE
Amyl Acetate.....	SL/E	n-Hexane.....	NE
Amyl Alcohol.....	SL/E	Nigrosine.....	NE
Aqua Regia.....	SE	Nitric Acid (all concentrations).....	SE
Aromatic Ammonia.....	NE	Perchloric Acid (concentrated).....	SE
Benedict's Solution.....	NE	Petroleum Jelly.....	NE
Bromothymol Blue	NE	Phenol (all concentrations).....	NE
Butyl Alcohol.....	SL/E	Phenolphthalein.....	NE
Calcium Hypochlorite (concentrated).....	NE	Phosphate Buffered Saline	NE
Camphorated para-chlorophenol.....	NE	Phosphoric Acid (all concentrations)	SE
Carbon Disulfide.....	SL/E	Picric Acid 1.2% (0.05M).....	SE
Carbon Tetrachloride.....	SL/E	Pine Oil.....	NE
Cellosolve.....	NE	Potassium Permanganate.....	SE
Chlorobenzene.....	NE	Povidone Iodine.....	NE
Chloroform.....	NE	Procaine.....	NE
Chromic Trioxide.....	SE	Quaternary Ammonia Compounds.....	NE
Copper Sulfate.....	NE	Safranin O.....	NE
Cresol.....	NE	Silver Nitrate.....	SE
Cresol Red.....	NE	Sodium Azide.....	NE
Crystal Violet.....	NE	Sodium Chromate.....	NE
Dimethyl Formamide.....	NE	Sodium Hydroxide (all concentrations).....	ME
Dioxane.....	NE	Sodium Hypochlorite 5%.....	SE
EDTA.....	NE	Sodium Sulfide 15%.....	NE
Ethyl Acetate.....	SL/E	Sulfuric Acid (all concentrations)	SE
Ethyl Alcohol.....	NE	Sodium Thiocyanate.....	NE
Ethylene Glycol.....	NE	Sucrose 50%.....	NE
Eucalyptol.....	NE	Sudan III.....	NE
Formaldehyde.....	SL/E	Tannic Acid (sat.).....	SL/E
Formalin.....	SL/E	Tetrahydrofuran.....	NE
Formic Acid (all concentrations).....	SE	Thymol & Alcohol.....	NE
Gasoline.....	NE	Thymol Blue.....	NE
Gentian Violet.....	ME	Tincture of Iodine.....	NE
Glacial Acetic Acid, 99% (concentrated).....	SL/E	Tincture of Mercurochrome.....	NE
Gram Stains.....	NE	Tincture of Merthiolate.....	NE
Hydrofluoric Acid 48% (concentrated).....	SE	Toluene.....	NE
Hydrochloric Acid (all concentrations).....	SE	Trichlorethane.....	NE
Hydrogen Peroxide 3%.....	NE	Trisodium Phosphate 30%.....	NE
Iodine.....	NE	Urea.....	NE
Karl Fischer Reagent.....	NE	Uric Acid (sat.).....	SL/E
Kerosene.....	NE	Vegetable Oils.....	NE
Lactated Ringers Solution.....	NE	Water.....	NE
Lysol™.....	NE	Wright's Blood Stain.....	NE
Malachite Green.....	NE	Xylene.....	NE
Methanol.....	SL/E	Zephiran Chloride.....	NE
Methylene Blue.....	NE	Zinc Chloride.....	NE
Methylene Chloride.....	NE	Zinc Oxide Ointment.....	NE
Methyl Ethyl Ketone.....	NE		

Test procedure: Listed materials were placed in contact with Arborite® Flex4 grade surface under 1" (25.4mm) diameter watch cover glass for 16-24 hours duration prior to evaluation for effect. The effects of staining are color and pattern dependent.

Explanation of test results:

NE: No effect

SL/E: Slight effect

ME: Moderate effect

SE: Severe effect

Results may vary slightly by color. Request a sample for evaluation and chemical resistance testing. It is recommended that chemical spills be cleaned immediately to prevent or greatly reduce the effects caused by longer exposure.

SURFACE TEXTURES:

Arborite® Flex4 laminates are available in 5 standard surface textures:

TEXTURES	SURFACE GLOSS VALUE *
Cashmere – a fine, matte texture with a slight sheen	8-12
Diamond – a fine beaded texture which minimizes smudges, finger marks and offers optimum scratch resistance.	10-16
Gloss – a flat texture with a high sheen	90-110
Laqwood – a slightly embossed woodgrain texture	20-30
Velvatex – a smooth furniture finish texture	10-20
Breccia – an embossed finish offering sheen levels ranging from matte to glossy	10-50

* CAN3-A172-M79

Note:

- Laboratory grade (acid resistant) laminate is available in Diamond and Matte finishes only.
- Surface scratches and abrasions are less noticeable on laminates with lighter colors and textured finishes.

SHEET SIZES:

Arborite® Flex4 laminate standard grades are available in the following sheet sizes.

Manufacturing tolerance is +13 mm, -0 mm (+ ½". -0").

Metric sizes are rounded to nearest 5 mm (3/32").

IMPERIAL MEASURE (FEET)	METRIC MEASURE (MM)
4' x 8'	1220 mm x 2440 mm
4' x 10'	1220 mm x 3050 mm
5' x 8'	1525 mm x 2440 mm
5' x 10'	1525 mm x 3050 mm
5' x 12'	1525 mm x 3660 mm
30" x 8'	762 mm x 2440 mm
30" x 10'	762 mm x 3050 mm

30" x 12'	762 mm x 3660 mm
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- **Gloss Surface Texture is only available in 4' x 8', 4'x 10', 5' x 12'**

STANDARDS & APPROVALS:

Arborite® Flex4 laminates meet or exceed standard tests set by:

- The National Electrical Manufacturers Association “ANSI/NEMA LD3-2000”, for high pressure decorative laminates.
- National Standard of Canada “CAN3-A172-M79” High Pressure, Paper Base, Decorative Laminates.

These standards establish the minimum criteria for resistance to wear, boiling water, high temperature, fading, dimensional stability, staining, appearance and formability .

Arborite® is certified ISO 9001:2000 Quality Management System for quality assurance in design, development, and production.

Arborite standard colour collection:

Arborite® offers a wide palette of colors ranging from pearlescent patterns to exotic woodgrains, to subtly enhanced patterns and well blended solid colors. Please refer to our standard color collection for all colors and patterns.

Arborite® Flex4 features do not apply to pearlescent patterns without a protective overlay. These patterns are recommended for vertical application only.

BUILDING CODES:

Arborite® Flex4 laminates meet the general requirements for the Canadian and US building codes.

PRODUCT AVAILABILITY:

Arborite® high pressure laminates are manufactured in Canada and distributed throughout North America through a network of distributors.

As a result of our state-of-the-art manufacturing procedure, **Arborite®** is able to offer quick delivery service to its distributors for all materials regardless of product grade, color, surface texture or size.

Contact an Arborite distributor in your respective area.

CARE & MAINTENANCE:

To clean **Arborite®** Flex4 laminate surfaces, simply wipe with a soft damp cloth and mild detergent; then rinse thoroughly with warm water and wipe dry. For stubborn stains, use an all-purpose cleaner, with a damp cloth; then rinse thoroughly with warm water and wipe dry.

For really tough stains, create a paste composed of baking soda and water. Using a soft brush, scrub gently in a circular motion – 10 to 20 strokes should remove most stains; then rinse

thoroughly with warm water and wipe dry. Keep in mind that excessive scrubbing can dull or damage the finish. [Click here for additional care and maintenance tips.](#)

Warranty

Arborite, division of ITW Canada, 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 ITW CANADA, 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.