Product Description

Compact Grade laminate is a high pressure solid composite designed for laboratory work surfaces, toilet partitions, wall panels, fume hood decks, fume hood liner panels, pegboards (drying racks), reagent racks, commercial countertops, cabinet drawer fronts, locker drawers, shelving, window sills and decorative casework components.

Compact Grade laminates provide exceptional chemical and stain resistance combined with superior impact resistance and physical characteristics.

Three categories of Compact Grade Laminates include:

1) **Arborite Compact Laminate** – represent a category of thick, self-supporting homogeneous panels finished with melamine surfaces on both sides. Can be used for laboratory applications and casework where less harmful acids and other chemical products are used.

2) **Arborite Fire Rated Compact Laminate** – represent a category of thick panels with fire retardant properties that are suitable for applications where fire rated properties are required by building codes, i.e., elevator cabs, stairwells, public areas, and hospitals. This laminate is also suitable for all segments within the transportation industry.

3) **Arborite ArboChem Compact Laminate** - represent a category of thick, self-supporting homogeneous panels finished with melamine surfaces on both sides. They are engineered to resist a variety of acids, solvents, general reagents and cleaning agents.
**Arborite Compact Laminate Thickness**

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Imperial Measure (in.)</th>
<th>Metric Measure (mm)</th>
<th>Thickness Tolerance</th>
<th>Lbs/Sq.Ft</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S013 (1/8&quot;)</td>
<td>0.125&quot;</td>
<td>3.2 mm</td>
<td>±0.012&quot;</td>
<td>0.90</td>
<td>Double Faced</td>
</tr>
<tr>
<td>S025 (1/4&quot;)</td>
<td>0.250&quot;</td>
<td>6.4 mm</td>
<td>±0.0125&quot;</td>
<td>1.80</td>
<td>Double Faced</td>
</tr>
<tr>
<td><strong>S031 (5/16&quot;)</strong></td>
<td>0.312&quot;</td>
<td>7.9 mm</td>
<td>±0.0156&quot;</td>
<td>2.25</td>
<td>Double Faced</td>
</tr>
<tr>
<td><strong>S038 (3/8&quot;)</strong></td>
<td>0.375&quot;</td>
<td>9.5 mm</td>
<td>±0.0187&quot;</td>
<td>2.70</td>
<td>Double Faced</td>
</tr>
<tr>
<td>S050 (1/2&quot;)</td>
<td>0.500&quot;</td>
<td>12.7 mm</td>
<td>±0.025&quot;</td>
<td>3.60</td>
<td>Double Faced</td>
</tr>
<tr>
<td>S075 (3/4&quot;)</td>
<td>0.750&quot;</td>
<td>19.0 mm</td>
<td>±0.037&quot;</td>
<td>5.40</td>
<td>Double Faced</td>
</tr>
<tr>
<td>S100 (1&quot;)</td>
<td>1.00&quot;</td>
<td>25.4 mm</td>
<td>±0.050&quot;</td>
<td>7.20</td>
<td>Double Faced</td>
</tr>
</tbody>
</table>

* Thickness tolerance according to NEMA LD 3-2005 for Compact Laminate grade (CGS)

** Available with a 20 sheet minimum order or a 25% up-charge will apply.

**Standard Panel Sizes for Arborite Compact Laminates**

<table>
<thead>
<tr>
<th>Imperial Measure (feet)</th>
<th>Metric measure (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4' x 8'</td>
<td>1220 mm x 2440 mm</td>
</tr>
<tr>
<td>** 4' x 10'</td>
<td>1220 mm x 3050 mm</td>
</tr>
<tr>
<td>** 5' x 8'</td>
<td>1525 mm x 2440 mm</td>
</tr>
<tr>
<td>5' x 10'</td>
<td>1525 mm x 3050 mm</td>
</tr>
<tr>
<td>5' x 12'</td>
<td>1525 mm x 3660 mm</td>
</tr>
</tbody>
</table>

** 4' x 10' and 5' x 8' available with a minimum of 20 sheets per size and thickness, or a 25% up-charge will apply.

**Arborite Compact Surface Texture**

<table>
<thead>
<tr>
<th>Texture</th>
<th>Surface Gloss Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cashmere (CA) Finish – a fine, matte texture with a slight sheen</td>
<td>8-12</td>
</tr>
<tr>
<td>Arborite Compact Color Availability</td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td></td>
</tr>
<tr>
<td>1530</td>
<td>1531</td>
</tr>
<tr>
<td>P238</td>
<td>P254</td>
</tr>
<tr>
<td>P300</td>
<td>P301</td>
</tr>
<tr>
<td>P315</td>
<td>P316</td>
</tr>
<tr>
<td>P325</td>
<td>P326</td>
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<tr>
<td>P341</td>
<td>P342</td>
</tr>
<tr>
<td>P352</td>
<td>P353</td>
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<tr>
<td>P366</td>
<td>P367</td>
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<tr>
<td>P376</td>
<td>P377</td>
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<tr>
<td>P999</td>
<td>S405</td>
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<tr>
<td>S466</td>
<td>S486</td>
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<td>W305</td>
<td>W372</td>
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<tr>
<td>W415</td>
<td>W416</td>
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<td>W427</td>
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<tr>
<td>W437</td>
<td>W443</td>
</tr>
<tr>
<td>W452</td>
<td>W453</td>
</tr>
</tbody>
</table>
Arborite Fire Rated Compact Laminate Thickness*

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Imperial Measure (In.)</th>
<th>Metric Measure (Mm)</th>
<th>Thickness Tolerance</th>
<th>Lbs/Sq.Ft</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF25 (1/4&quot;)</td>
<td>0.250&quot;</td>
<td>6.4 mm</td>
<td>± 0.0125&quot;</td>
<td>1.8</td>
<td>Double Faced</td>
</tr>
<tr>
<td>SF50 (1/2&quot;)</td>
<td>0.500&quot;</td>
<td>12.7 mm</td>
<td>± 0.025&quot;</td>
<td>3.6</td>
<td>Double Faced</td>
</tr>
<tr>
<td>SF75 (3/4&quot;)</td>
<td>0.750&quot;</td>
<td>19.0 mm</td>
<td>± 0.037&quot;</td>
<td>5.4</td>
<td>Double Faced</td>
</tr>
<tr>
<td>F100 (1&quot;)</td>
<td>1.00&quot;</td>
<td>25.4 mm</td>
<td>± 0.050&quot;</td>
<td>7.2</td>
<td>Double Faced</td>
</tr>
</tbody>
</table>

* thickness tolerance according to NEMA LD 3-2005 for Compact Laminate grade (CGS)

Standard Panel Sizes for Fire Rated Compact Laminates

<table>
<thead>
<tr>
<th>Imperial Measure (feet)</th>
<th>Metric measure (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4' x 8'</td>
<td>1220 mm x 2440 mm</td>
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</tr>
</tbody>
</table>

Arborite Fire Rated Compact Laminate Texture Availability

<table>
<thead>
<tr>
<th>Texture</th>
<th>Surface Gloss Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cashmere (CA) Finish – a fine, matte texture with a slight sheen</td>
<td>8-12</td>
</tr>
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</table>

Arborite Fire Rated Compact Laminate Color Availability

<table>
<thead>
<tr>
<th>1530</th>
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<th>1539</th>
<th>1541</th>
<th>P124</th>
<th>P203</th>
<th>P223</th>
<th>P229</th>
<th>P231</th>
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<tbody>
<tr>
<td>P238</td>
<td>P254</td>
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<td>P257</td>
<td>P258</td>
<td>P259</td>
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<td>P886</td>
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<td>W457</td>
<td>W458</td>
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</tbody>
</table>
Certifications – Fire Rated Compact Laminate (1/4” – 1”)

<table>
<thead>
<tr>
<th>Underwriters Laboratories</th>
<th>Class 1</th>
</tr>
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<tbody>
<tr>
<td>UL &amp;23 (ASTM E84)*</td>
<td></td>
</tr>
<tr>
<td>- Performance Properties:</td>
<td></td>
</tr>
<tr>
<td>Flame Spread</td>
<td>25</td>
</tr>
<tr>
<td>Smoke Developed:</td>
<td>200</td>
</tr>
</tbody>
</table>

*“Test for Surface Burning Characteristics of Building Materials”

ArboChem Compact Laminate Thickness*

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

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

ArboChem Compact Laminates Standard Panel Sizes

<table>
<thead>
<tr>
<th>Imperial Measure (feet)</th>
<th>Metric measure (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4' x 8'</td>
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<td>5' x 10'</td>
<td>1525 mm x 3050 mm</td>
</tr>
<tr>
<td>5' x 12'</td>
<td>1525 mm x 3660 mm</td>
</tr>
</tbody>
</table>

ArboChem Compact Laminates Texture Availability

<table>
<thead>
<tr>
<th>Texture</th>
<th>Surface Gloss Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matte (MA) Finish – a fine beaded texture with a slight sheen</td>
<td>14-18</td>
</tr>
</tbody>
</table>

ArboChem Compact Laminates Color Availability

<table>
<thead>
<tr>
<th>P500</th>
<th>P885</th>
<th>P886</th>
<th>P999</th>
<th>S405</th>
<th>S406</th>
<th>S407</th>
<th>S431</th>
<th>S463</th>
<th>S466</th>
</tr>
</thead>
<tbody>
<tr>
<td>S486</td>
<td>S513</td>
<td>S548</td>
<td>S550</td>
<td>W403</td>
<td>W405</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### NEMA Performance Properties of Compact Grade Laminates (CGS)

- **meets or exceeds these values**

<table>
<thead>
<tr>
<th>ASTM TEST METHOD</th>
<th>NOMINAL THICKNESS</th>
<th>UNITS: MM / INCHES</th>
<th>COMPACT LAMINATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt;6.0 mm (&gt;0.236&quot;)</td>
</tr>
<tr>
<td>D 790</td>
<td>Flexural Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) MD Min.</td>
<td>1.24 x 10^2 (18000)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) CD Min.</td>
<td>8.27 x 10^1 (12000)</td>
</tr>
<tr>
<td>D 790</td>
<td>Flexural Modulus (Modulus of Elasticity)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) MD Min.</td>
<td>1.10 x 10^4 (1.6 x 10^5)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) CD Min.</td>
<td>9.65 x 10^3 (1.4 x 10^5)</td>
</tr>
<tr>
<td>D 638</td>
<td>Tensile Strength</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) MD Min.</td>
<td>1.24 x 10^2 (18000)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPa (psi) CD Min.</td>
<td>8.27 x 10^1 (12000)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>GRADE** UNITS</th>
<th>COMPACT LAMINATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>&gt;6.0 mm (± 5% of thickness)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;0.236” (± 5% of thickness)</td>
</tr>
<tr>
<td>Light Resistance</td>
<td>Rating, * Min.</td>
<td>SL</td>
</tr>
<tr>
<td>Cleanability</td>
<td>Rating, * Max.</td>
<td>20</td>
</tr>
<tr>
<td>Stain 1-10</td>
<td>Rating, * Min.</td>
<td>NE</td>
</tr>
<tr>
<td>Stain 11-15</td>
<td>Rating, * Min.</td>
<td>M</td>
</tr>
<tr>
<td>Boiling water resistance</td>
<td>Rating, * Min.</td>
<td>NE</td>
</tr>
<tr>
<td>High Temperature Resistance</td>
<td>Rating, * Min.</td>
<td>SL</td>
</tr>
<tr>
<td>Ball Impact Resistance</td>
<td>mm (in.) Min.</td>
<td>1900 (75)</td>
</tr>
<tr>
<td>Radiant Heat Resistance</td>
<td>Sec., Min.</td>
<td>200</td>
</tr>
<tr>
<td>Dimensional Change</td>
<td>% MD, Max</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td>% CD, Max</td>
<td>0.7</td>
</tr>
<tr>
<td>Room Temperature Dimensional Stability</td>
<td>% MD, Max</td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td>% CD, Max</td>
<td>0.7</td>
</tr>
<tr>
<td>Wear Resistance</td>
<td>Cycles, Min.</td>
<td>400</td>
</tr>
</tbody>
</table>

* Rating system: NE – no effect, SL – slight effect, M – moderate effect, S – Severe Effect
** Grade designations are not acronyms
### Arborite Compact Laminate - Chemical Reagent Staining Effects

<table>
<thead>
<tr>
<th>Chemical Reagent</th>
<th>Effect</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid (all concentrations)</td>
<td>SL/E</td>
<td>NE</td>
</tr>
<tr>
<td>Acetone</td>
<td>SL/E</td>
<td>NE</td>
</tr>
<tr>
<td>Ag Eosin Bluish 5% in Alcohol</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Alconox</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Aluminium</td>
<td>NE</td>
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</tr>
<tr>
<td>Ammonium Hydroxide (all concentrations)</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Ammonium Phosphate</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Amyl Acetate</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Amyl Alcohol</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Aqua Regia</td>
<td>SE</td>
<td>NE</td>
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<tr>
<td>Aromatic Ammonia</td>
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<tr>
<td>Benedict’s Solution</td>
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<td>NE</td>
</tr>
<tr>
<td>Bromothymol Blue</td>
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</tr>
<tr>
<td>Butyl Alcohol</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Calcium Hypochlorite (concentrated)</td>
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</tr>
<tr>
<td>Camphorated para-chlorophenol</td>
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<td>NE</td>
</tr>
<tr>
<td>Carbon Disulphide</td>
<td>SL/E</td>
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</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>SL/E</td>
<td>NE</td>
</tr>
<tr>
<td>Cellosolve</td>
<td>NE</td>
<td>NE</td>
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<tr>
<td>Chlorobenzene</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Chloroform</td>
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<tr>
<td>Chromic Trioxide</td>
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<td>NE</td>
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<tr>
<td>Copper Sulfate</td>
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<tr>
<td>Cresol</td>
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<td>NE</td>
</tr>
<tr>
<td>Cresol Red</td>
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<td>NE</td>
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<tr>
<td>Crystal Violet</td>
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<td>NE</td>
</tr>
<tr>
<td>Dimethyl Formamide</td>
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<td>ME</td>
</tr>
<tr>
<td>Dioxane</td>
<td>SL/E</td>
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<tr>
<td>EDTA</td>
<td>NE</td>
<td>NE</td>
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<td>NE</td>
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<tr>
<td>Ethyl Alcohol</td>
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<tr>
<td>Ethylene Glycol</td>
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<td>NE</td>
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<tr>
<td>Eucalyptol</td>
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<tr>
<td>Formaldehyde</td>
<td>SL/E</td>
<td>NE</td>
</tr>
<tr>
<td>Formalin</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Formic Acid (all concentrations)</td>
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<td>NE</td>
</tr>
<tr>
<td>Gasoline</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Gentian Violet</td>
<td>ME</td>
<td>NE</td>
</tr>
<tr>
<td>Glacial Acetic Acid, 99% (concentrated)</td>
<td>SL/E</td>
<td>NE</td>
</tr>
<tr>
<td>Gram Stains</td>
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</tr>
<tr>
<td>Hydrofluoric Acid 48% (concentrated)</td>
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<td>NE</td>
</tr>
<tr>
<td>Hydrochloric Acid (all concentrations)</td>
<td>SE</td>
<td>NE</td>
</tr>
<tr>
<td>Hydrogen Peroxide 3%</td>
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<tr>
<td>Iodine</td>
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<tr>
<td>Kerosene</td>
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<tr>
<td>Lactated Ringers Solution</td>
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<tr>
<td>Lysol™</td>
<td>NE</td>
<td>ME</td>
</tr>
<tr>
<td>Malachite Green</td>
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<tr>
<td>Methanol</td>
<td>SL/E</td>
<td>NE</td>
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<tr>
<td>Methylene Blue</td>
<td>ME</td>
<td>NE</td>
</tr>
<tr>
<td>Methylene Chloride</td>
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<td>NE</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone</td>
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</tr>
</tbody>
</table>

**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.
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. Tetrahydrofuran
37. Toluene
38. Trichloroethane
39. Xylene
40. Ammonium Hydroxide (all concentrations)
41. Sodium Hydroxide (all concentrations)**
42. Sodium Sulfide 15%
43. Alconox (Lab. Detergent)
44. Aluminon
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. Lyso™
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 Iodine 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
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. Methylene 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 Compact Laminates, Arborite ArboChem Compact laminates, and Arborite Fire Rated Compact laminates offer special protection for many work surfaces. These product types are designed for interior applications. 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 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 a member of the USGBC (US Green Building Council).

- Arborite is a member of the CaGBC (Canada Green Building Council).

**Building Codes**

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

**Antimicrobial Activity and Efficacy**

Arborite decorative laminates have a non-porous surface that does not promote bacterial growth. Tested under method JIS Z2801:2000 (E) for antimicrobial activity and efficacy, our laminate surface exhibited strong biocidal properties, with a reduction of 99.99% of the tested bacteria (S.aureus).

**FSC Certification**

Arborite products are available as FSC Mix Credit (please contact our customer service department for availability).

FSC Chain of Custody number: SCS-COC-003203

**Core Color**

Arborite Compact Laminates, Arborite ArboChem Compact laminates, and Arborite Fire Rated Compact laminates are produced with a black core as the standard offering in ¼” to 1” thicknesses.
Fabrication

Arborite Compact decorative laminate can be cut, drilled and machined by standard wood-working equipment fitted with carbide cutting edges. Rough cuts can be made with carbide tip blades typically 62 tooth or greater on a table saw or Kane saw.

To achieve a clean edge, routers with ¼” or ½” shaft, with 2 flute carbide blades can be used to remove rough edges. CNC routers typically will run at 10,000 to 18,000 RPM’s at 150 to 900 inches per minute. (dependent on thickness of panel and type of cut). It is common to run 10,000 RPM’s at 200 inch per min on ½” and ¾” material.

Final edge sanding can be achieved with an orbital sander.

<table>
<thead>
<tr>
<th>Matt Finish</th>
<th>Satin</th>
<th>Simi gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>100u</td>
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<tr>
<td></td>
<td>1000 Mirka Abralon</td>
<td>1000 Mirka Abralon</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 Mirka Abralon</td>
</tr>
</tbody>
</table>

Installation

Generally, the principles applicable to the installation of decorative laminate work will also apply to the installation of Arborite Compact laminate.

Surface mounted objects should be secured into the face or back of the laminate using self-tapping screws in pre-drilled holes. IMPORTANT NOTE: Do not screw into the edges of Compact Grade laminate.

Leveling at joints should be done using shims on the underside if necessary. Do not use splines in the edges. Metal brackets or retaining clips are recommended for securing the laminate panels together, and to abutting surfaces. To secure counters to cabinets and provide liquid proof butt joints, a two part epoxy, two part urethane or silicone sealant can be used. The following detailed drawings indicate the basic principles for installing Arborite Compact decorative laminate.
**JOINTS**

KEEP SCREWS 3 mm (1/8") FROM LAMINATE FACE

SELF TAPPING SCREWS IN PRE DRILLED HOLES

V JOINT  SOLID GRADE LAMINATE

SHIMS (IF REQUIRED)
THICKNESS VARIATION
100 mm x 100 mm x 3 mm
4” x 4” x 1/8 METAL PLATE AT 600 MM (18") O.C.

**EDGES AND NOSING**

CHAMFERED CORNERS
SMOOTH EDGE

SUBSTRATE FRAME OR BRACKETS

MILLED-OUT GROOVES FOR SLIDING DOOR GUIDES
SOLID LAMINATES SLIDING DOORS

**Standard edges**

**Edges with sliding doors**

**Improper edge fastening**

**Laboratory sink**

ARBORITE® ACID RESISTANT SOLID-GRADE DECORATIVE LAMINATE

CHEMICAL RESISTANT SEALANT SINK

SINK BRACKET

SOLID GRADE LAMINATE

**Built-up edges**

**Edges with arpon**

**Substrate frame or brackets**
**Care and Maintenance**

To clean Arborite 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. For additional care and maintenance tips, please visit our web site at [http://www.arborite.com/us/HPL-Technical-Information](http://www.arborite.com/us/HPL-Technical-Information), HPL Care & Maintenance.

**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 Compact Laminate

Produced by Arborite,

Type: S013 (1/8''), S025 (1/4''), S031 (5/16''), S038 (3/8''), S050 (1/2''), S075 (3/4''), S100 (1'')

Surface

Color Number: __________   Color Name: __________________________

Finish

Code: __________   Name: __________________________

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________________________
Specification Form:

Surface shall be Arborite Fire Rated Compact Laminate

Produced by Arborite,

Type: SF25 (1/4”), SF50 (1/2”), SF75 (3/4”), F100 (1”)

Surface

Color Number: _________  Color Name: __________________________

Finish

Code: ______CA____  Name: ______Cashmere_______________