

**TECHNICAL DATA**

Arborite® Pure, anti-fingerprint Laminate

Type: P4

**1. Manufacturer**1051 NW H K Dodgen Loop  
Temple TX  
76504 USA**2. Product Description****Recommended Uses**

Arborite® anti-fingerprint laminate, Type P4, is suitable for use on retail, office furniture, manufactured housing, hospitality, casework, countertops, and interior doors and also for architectural application on wainscoting, valances, and divider systems.

- Type P4 Common applications are for counters, desktops, cabinet doors and drawer panels. Type P4 is intended for use on vertical and horizontal interior surfaces.

**Product Composition**

Decorative surface papers impregnated with resins that are pressed over kraft paper core sheets impregnated with phenolic resin. These sheets are then bonded at pressures greater than 1000 pounds per square inch at temperatures approaching 300°F (149°C). Finished sheets are trimmed, and the backs are sanded to facilitate bonding.

**Basic Limitations**

Arborite Pure Laminate is for interior use only and is not recommended for direct application to plaster, concrete walls, or gypsum wallboard. It is not structural material and must be bonded to a suitable substrate. Pure Laminate is a non-post formable product.

Do not subject Arborite Laminate to extremes in humidity, temperatures higher than 275°F (135°C) for substantial periods of time, or intense, continuous, direct sunlight.

**Patterns & Colors**

Available in the following Arborite colors: V7001, V7002, V7003 and V7004. See all patterns and colors at [www.arborite.com](http://www.arborite.com). Please see actual sample before specifying.

**Finish Availability**

- VR Pure Finish - A smooth textured finish with moderate reflective value.  
*Nominal Glossometer Reading = 2.5*  
VR finish is designated for Arborite Pure Laminate only.

*NOTE: Nominal Glossometer Readings are made at a 60° angle of incidence.*

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### Standard Sheet Widths

|        |
|--------|
| 48"    |
| 1219mm |

### Standard Sheet Lengths

|        |        |
|--------|--------|
| 96"    | 120"   |
| 2438mm | 3048mm |

### Thickness and Weight

|                        |                                      |
|------------------------|--------------------------------------|
| Description            | 138                                  |
| Thickness              | 0.039" ± 0.005"<br>(0.99mm ± 0.13mm) |
| Weight per square foot | 0.260#                               |

## 3. Technical Data

Physical Properties of Pure Laminates

| ISO 4586 Test   | Typical Arborite Type P4                                | ISO 4586-8   |
|---|---|--|
| Thickness   | <b>0.039" ± 0.005"</b><br><b>(0.99mm ± 0.13mm)</b>      | 0.039" ± 0.005"<br>(1mm ± 0.12mm)                      |
| Appearance  | <b>No ABC def.</b>                                      | Not applicable.  |
| Light Resistance  | <b>Slight effect</b>                                    | Slight effect  |
| Cleanability (cycles)   | <b>20</b>   | 20   |
| Stain Resistance<br>Reagents 1-10<br>Reagents 11-15                         | <b>No effect</b><br><b>Slight effect (Light colors)</b> | No effect<br>Moderate effect                           |
| Boiling Water<br>Resistance   | <b>No Effect</b>  | Slight Effect (Gloss)<br>No Effect (Other<br>Finishes) |
| High Temperature<br>Resistance  | <b>No Effect</b>  | Slight Effect (Gloss)<br>No Effect (Other<br>Finishes) |
| Impact Resistance   | <b>45" (1143mm)</b>                                     | 31.5" (800mm)  |
| Radiant Heat<br>Resistance  | <b>235 seconds</b>                                      | ≥ 200 sec.   |
| Dimensional Stability<br>(Elevated)<br>Machine Direction<br>Cross Direction | <b>0.3%</b><br><b>0.7%</b>                              | 0.55% (max.)<br>0.95% (max.)                           |
| Dimensional Stability<br>(Ambient)<br>Machine Direction<br>Cross Direction  | <b>0.3%</b><br><b>0.7%</b>                              | 0.50% (max.)<br>0.90% (max.)                           |
| Surface Wear<br>Resistance<br>(cycles)                                      | <b>Meets or Exceeds 350<br/>cycles</b>                  | 350 (min.)   |
| Formability*  | <b>Not applicable</b>                                   | Not Applicable   |

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**Typical Fire Test Data**

High-pressure laminates are subject to Flame Spread and Smoke Developed standards in structures where codes establish such conditions.

Test data to determine compliance with these codes are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Test Method for Surface Burning Characteristics of Building Materials). Tests were conducted in accordance with test method and mounting procedure as described in paragraph X1.7.2 of the test method. This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723.

**Typical Flame Spread and Smoke Developed Properties**

| Product Type | Test Condition | Flame Spread | Smoke Developed |
|--------------|----------------|--------------|-----------------|
| Type-P4      | Unbonded       | 80           | 60              |

**Model Code Designations used to determine flame spread classification**

| Flame Spread Classification<br>(Max. Rating) | International<br>(IBC) | Life Safety<br>(NFPA 101) |
|--|------------------------|---------------------------|
| 25   | A                      | A                         |
| 75   | B                      | B                         |
| 200  | C                      | C                         |

RE: Architectural Woodwork Quality Standard, 8th Edition, Version 1.0, - 2003

All Model Codes regulate the generation of smoke by interior finish material. In all cases they specify a maximum smoke development rating of 450.

**Codes and Certifications****General Standards**

Arborite Laminates, type P4, conforms to the voluntary standards of the American National Standards Institute, for thickness, performance properties and appearance. Arborite Laminate P4 meets or exceed the International Standards Organization specifications as found in ISO 4586-8, titled "High-Pressure Decorative Laminate (HPDL) – Sheets Based on Thermosetting Resins – Part I: specifications."

**Specific Product Standards**

The UL GREENGUARD Environmental Institute™ has awarded its UL GREENGUARD® Indoor Air Quality Certification to Arborite's Pure Laminates. All of Arborite's Pure Laminate product types were tested under the stringent UL GREENGUARD Standards for low-emitting products. All UL 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).

All patterns meet SEFA 8-PL testing requirements

**Branded Cleaner and Sanitizer Resistance for Arborite® Pure Anti-Fingerprint Laminate**

No effect was exhibited except as noted (\* or \*\*) on the following:

1. Clorox Healthcare Bleach Germicidal Cleaner \*\*
2. Clorox Healthcare Versa Sure Cleaner Disinfectant Wipes
3. Oxivir TB \*\*
4. Oxivir 1 \*\*
5. Virex II 256 \*\*
6. Benefect \*
7. PDI Super Sani-Cloth Germicidal Disposable Wipes \*

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8. PDI Sani-Prime Germicidal Spray
9. Expose II 256 \*\*
10. Stride Floral Neutral Cleaner \*
11. PURELL Advanced Instant Hand Sanitizer

Test procedure: Listed materials were placed in contact with Arborite® Pure Anti-Fingerprint Laminate surface under 1" (25.4mm) diameter watch cover glass for 16 hours duration prior to evaluation for effect. The branded cleaners and sanitizers listed above were cleaned with water only.

\* Causes slight change of gloss or color.

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

**4. Installation: Fabrication and Assembly Recommendations**

Fabrication should follow approved methods. Assembled pieces should meet the specifications of KCMA (Kitchen Cabinetmakers Manufacturers Association), ANSI A-161.2-1998 (revised), and "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute where applicable.

Arborite laminates must be bonded to a substrate of reliable quality, such as particleboard, medium density fiberboard or plywood with one A-face. High-pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic Types laminate may not be used as structural members.

Bond with adhesives and follow the techniques recommended by the adhesive manufacturer. Recommended adhesives are permanent types, such as urea and polyvinyl acetate (PVA), and contact types. Wilsonart adhesives are recommended for most bonding conditions.

To avoid stress cracking, do not use square-cut inside corners. All inside corners should have a minimum of 1/8" (3.175mm) radius and all edges should be routed smooth.

Drill oversized holes for screws or bolts. Screws or bolts should be slightly countersunk into the face side of a laminate-clad substrate.

Take care to ensure an appropriate acclimation between the laminate and the substrate prior to fabrication. The face and backing laminates and the substrate should be conditioned in the same environment for 48 hours before fabrication.

Recommended conditioning temperature is about 75°F (24°C). Laminates should be conditioned at 45% to 55% relative humidity.

Carbide-tipped saw and router blades should be used for cutting. High tool speed and low feed speed are advisable. Cutting blades should be kept sharp. Use a hold-down to prevent any vibration.

**5. Warranty****6. Maintenance**

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### 7. Technical Services

For samples, literature, questions or technical assistance, please email us at [info@arborite.com](mailto:info@arborite.com) or contact our toll-free number, 1-800-996-0366 Monday through Friday, 8:30 am – 5:00 pm, EST.

Specification Form:

Surface shall be Arborite® Pure Laminate.

Type: Specify P4

Surface

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

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

Finish

Code: VR

Name: Velour

Adhesive

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

Grade/Type: \_\_\_\_\_

Brand: Wilsonart® Adhesive