

1. **Manufacturer**

Wilsonart LLC
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2. **Product Description**

Recommended Uses

Wilsonart® Markerboard Laminate Type 156/336, is provided for the special needs of applications requiring a durable, gloss decorative surface that ensures easy erasure of dry erase markers.

Wilsonart Markerboard Laminate is ideal for applications where liquid chalk is to be used, including presentation areas, schools, conference rooms, planning centers and offices.

- General Purpose Type 156 is the usual choice where increased impact resistance for vertical surfaces is required.
- Vertical Grade Type 336 is the usual choice for vertical applications where a functional, durable, decorative, and dry erase performance is required.

Product Composition

Markerboard Laminate is constructed from decorative surface papers that are impregnated with melamine resins and pressed over kraft paper core sheets impregnated with phenolic resin. The melamine resin facilitates liquid chalk removal. Sheets are then bonded at pressures greater than 1000 pounds per square inch and at temperatures approaching 300°F (149°C). Finished sheets are trimmed and the backs sanded to facilitate bonding.

Basic Limitations

Markerboard 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.

Do not subject Wilsonart Laminate to extremes in humidity, temperatures over 275°F (135°C) for sustained periods of time, or intense, continuous, direct sunlight.

Colors: Type 156

D514

No other patterns or colors are available as Wilsonart 156 Markerboard Laminate. 3"x5" samples are available for evaluation by calling 1-800-433-3222.

Colors: Type 336

D514

No other patterns or colors are available as Wilsonart 336 Markerboard Laminate. 3"x5" samples are available for evaluation by calling 1-800-433-3222.

Finishes

#9 Gloss ONLY - A smooth gloss finish that facilitates easy removal of dry erase markers.

Nominal Glossometer Reading = 110

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

Sheet Sizes

48" x 96" (1219.2mm x 2438.4mm)
48" x 144" (1219.2mm x 3657.6mm)
60" x 144" (1524mm x 3657.6mm)

Sheet Thicknesses

	Typical Wilsonart Thickness	NEMA Thickness	Weight PSF
General Purpose Type 156 (HGS)	0.036" ± 0.005" (0.9144 ± 0.12mm)	0.036" ± 0.005" (0.9144 ± 0.12mm)	0.322#
General Purpose Type 336 (VGS)	0.028" + 0.001" - 0.004" (0.71mm + 0.03mm-0.10mm)	0.028" + 0.001" - 0.004" (0.711.2mm + 0.03mm- 0.10mm)	0.186#

3. Technical Data

Physical Properties of Markerboard Laminate

NEMA Test	Typical Wilsonart Type 156/336 Value	ISO 4586-3 HGS
Thickness	0.036" (0.9144) 0.028" (0.7112mm)	0.036" ± 0.005" (0.9144 ± 0.10mm)
Surface Wear Resistance (cycles)	700/900	350 (min.)
Boiling Water Resistance	No effect	Slight Effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	No effect	Slight Effect (Gloss) No Effect (Other Finishes)
Radiant Heat Resistance	150 seconds	≥ 200 sec.
Stain Resistance Reagents 1-10 Reagents 11-15	No effect No effect	No effect Moderate effect
Light Resistance	Slight effect / Moderate Effect	Slight effect
Dimensional Stability Machine Direction Cross Direction	0.3% 0.7%	1.1% (max.) 1.4% (max.)
Impact Resistance	65" (1651mm) / 31.5" (800mm)	31.5" (800mm)
Cleanability (cycles)	10	10
Appearance	No ABC defects	No ABC defects

*Markerboard Laminate is not specifically covered in ANSI/NEMA LD3-2005 standards. However, the physical properties of this product conform closely to specifications listed in standards.

Typical Fire Test Data

Test data for Markerboard Fire-Rated Laminate are obtained by the Steiner Tunnel Test method of the American Society for Testing Materials (ASTM-E-84, Standard Testing Method for Surface Burning Characteristics of Building Materials). This procedure is cataloged by Underwriters Laboratories, Inc. as UL 723.

Typical Flame Spread and Smoke Developed Properties

Wilsonart Product	Flame Spread	Smoke Developed
156	65	115
336	40	155

Note: Independent test conducted on unsupported laminate.

Model Code Designations used to determine flame spread classification

Flame Spread Classification (Maximum Rating)	International (IBC)	Life Safety (NFPA 101)
25	A	A
75	B	B
200	C	C

Reference: 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

Code compliances have not yet been determined for finished installation of this state-of-the-art decorative laminate. You are urged to consult with product manufacturers and applicable code authorities in your choices of adhesive, substrate and design for end applications.

General Standards

Wilsonart Laminates conform to the voluntary standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005, for thickness, performance properties and appearance. Various grades of Wilsonart Laminates meet or exceed the International Standards Organization specifications as found in ISO 4586, titled, "High-Pressure Decorative Laminate (HPDL) - Sheets Based on Thermosetting Resins - Part I: Specifications."

The UL GREENGUARD Environmental Institute has awarded its UL GREENGUARD Indoor Air Quality Certification to Wilsonart Laminate. All Wilsonart 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.

Specific Product Standards

U.S. Federal Specification L-P 508H, April 9, 1977, "Plastic Sheets, Laminated, Decorative and Nondecorative," spells out criteria for decorative laminates for federal installations.

Branded Cleaner and Sanitizer Resistance for Wilsonart® Markerboard 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
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 Wilsonart Markerboard 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.*

12. Installation: Fabrication and Assembly Recommendations

Fabrication should follow approved methods. Assembled pieces should meet the specification 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.

Wilsonart Markerboard Laminate 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. Markerboard 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.

NOTE: Markerboard Laminate is shipped without protective film.

13. Warranty

14. Maintenance

Quartet® and Expo® Dry Erase Markers are recommended for Wilsonart Markerboard Laminate.

Wilsonart Markerboard Laminate can be cleaned using a felt or multi-purpose board eraser. When additional cleaning is required, a soft cloth dampened with warm tap water and mild soaps, such as those used for hands or dishes, are recommended. If stubborn stains persist, Markerboard Laminate can be cleaned with spray-type glass cleaners, such as Windex®, 409® Formula All-Purpose Cleaner, Isopropyl Alcohol or Zep® Write-Away Graffiti & Ink Remover. Hard-to-remove stains can be treated

with a 2-minute exposure to hypochlorite bleach, such as Clorox®, immediately followed by a clean water rinse.

Various whiteboard cleaners and conditioners, such as Quartet, Expo, or Windex, available through local office supply stores, are excellent products for thorough cleaning. Remember to clean erasers often by wiping to remove dry-erase marker residue.

15. Technical Services

For samples, literature, questions or technical assistance, please contact our toll-free Hotline at (800) 433-3222, Monday through Friday, 8 am –5 pm, CST.

Specification Form:

Surface shall be Wilsonart® Markerboard Laminate, produced by Wilsonart LLC, Temple, Texas 76503-6110.	
Type:	Specify 156 (.036" Thickness) or 336 (.028" Thickness)
Surface	
156 Pattern Number:	D514
Pattern Name:	Markerboard White
336 Pattern Number:	D514
Pattern Name:	Markerboard White
Finish	
Number:	_____ Name: _____
Edge Trim	
Pattern Number:	_____ Pattern Name: _____
Adhesive	
Name:	_____ Grade/Type: _____
Brand:	Wilsonart® Adhesive
Material shall equal or exceed performance standards set by the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005 for high-pressure laminate. Fabrication shall comply with "Architectural Woodwork Quality Standards, Guide Specifications and Quality Certification Program" guidelines of the Architectural Woodwork Institute.	

Wilsonart® Markerboard Laminate Technical Data Revised:
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