

Wilsonart[®] HPL Laminate with AEON[™]

TECHNICAL DATA SHEET FOR SURFACE FINISHES – **01, 07, 12, 21, 22, 57**

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DESCRIPTION

Wilsonart[®] HPL Laminate with AEON[™] enhanced scratch & scuff-resistant performance technology, exclusively available on Wilsonart[®] HD High Definition[®] and Wilsonart[®] Premium Laminates, creates a surface that is more durable than standard laminate with similar finishes. The benefit is a surface that performs and looks better longer.

Wilsonart[®] HD and Premium laminate is manufactured with Sanitized[®] antibacterial treatment, eliminating 99.9% of harmful bacteria within 24 hours.

Wilsonart[®] HPL Laminate with AEON[™] feature realistic decors that provide a cost-effective alternative to popular on-trend marbles, stones, solid surfaces, and woodgrains. Wilsonart[®] decors and realistic surface finishes not only add authenticity to the overall look but can also be post-formed to a tight radius offering a modern appearance to countertops.

APPLICATION

Recommended for interior use only, Wilsonart[®] HPL Laminate with AEON[™] is suitable for horizontal and vertical use in commercial and residential applications. Ideal for counter and tabletops, cabinets, doors and drawer fronts, wall panelling, shelving and more.

PERFORMANCE

Wilsonart[®] HPL Laminate with AEON[™] outperforms standard laminate with similar finishes on wear, scratch, and scuff resistance.

Wilsonart[®] HD Premium Laminate with AEON[™] Enhanced Performance Technology, are up to:

- 5 x more scuff & scratch resistant*
- 3 x more wear resistant*

Wilsonart[®] Premium Laminate with AEON[™] Enhanced Performance Technology, are up to:

- 3 x more scuff & scratch resistant*
- 3 x more wear resistant*

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| SURFACE FINISHES

Suitable for horizontal or vertical use, Wilsonart® HPL Laminate with AEON™ is available in a variety of surface textures.

01 High Gloss – Premium

A high reflective sheen finish, which gives a smooth, opulent appearance. Recommended for horizontal applications such as countertops and light-to medium commercial applications.

Nominal Glossometer Reading = 110

#07 Textured Gloss – Premium

A textured finish that resembles the high sheen of waxed wood furniture.

Nominal Glossometer Reading = 42

#12 Soft Grain – Premium

A dense, wood grain structure with a low gloss and is soft to the touch. Subtle highlights of reflectivity randomly occur within the embossed grains, creating a sophisticated raw wood look.

Nominal Glossometer Reading = 8

#21 Soft Silk - Premium

A smooth, ultra-matte texture that leaves a soft to the touch sensation coupled with a low sheen.

Nominal Glossometer Reading = 10

#22 Antique – Premium

A mixture of varying low gloss features combined with organic movement, indicative of the surface of an aged stone or an antique metal.

Nominal Glossometer Reading = 9

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| SURFACE FINISHES - continued

#57 **Aligned Oak** – HD Premium

Authentic realism is brought to the surface using synchronised texture, as each elegantly aged oak design exhibits the natural dimension and feel of real wood.

Nominal Glossometer Reading = 7

NOTE: Glossometer readings are made at a 60° angle of incidence. MD refers to the machine direction of a laminate sheet, and CD refers to the cross direction.

| TECHNICAL DATA

NEMA Test	Wilsonart HPL Type 335	ISO 4586-3 VGP
Standard Sheet Size	3660 x 1530mm	
Nominal Thickness	0.7mm	0.7mm
Thickness Tolerance	± 0.03 - 0.10mm	± 0.10mm
Appearance	No ABC def.	No ABC def.
Light Resistance	Slight effect	Slight effect
Cleanability (cycles)	10	10
Stain Resistance Reagents 1-10	No effect	No effect
Reagents 11-15	Slight effect	Moderate effect
Boiling water Resistance	No effect	Slight effect (Gloss) No Effect (Other Finishes)
High Temperature Resistance	Slight effect	Slight effect

This technical data sheet was prepared using information gathered at the time of publication. Whilst Wilsonart Australia endeavours to update this information and maintain accuracy and currency of its content, it should only be used as a guide and not necessarily be regarded as applicable to all situations. Wilsonart Australia cannot guarantee that the information provided is wholly comprehensive, nor is this information intended as an alternative to any testing that the user may conduct to determine the suitability of the product for a particular application. Wilsonart Australia reserves the right to revise specification data at any time without notice.

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TECHNICAL DATA - continued

ISO 4586 Test	Wilsonart HPL Type 335	ISO 4586-3 VGP
Impact Resistance	1016mm	600mm
Radiant Heat Resistance	120 seconds	> 200 sec.
Dimensional Stability Machine Direction Cross Direction	0.5% 0.8%	1.1% (max) 1.4% (max)
Surface Wear Resistance Cycles	1200 (min)	350 (min)
Blistering	45 seconds	>40 seconds

Wilsonart laminates conform to the voluntary standards of the American National Standards Institute/National Electrical Manufacturers Association (ANSI/NEMA) LD3-2005.

SCRATCH & SCUFF RESISTANTANCE

Wilsonart Internal	Typical Wilsonart AEON Laminate	Typical Non-AEON Laminate
*Scuff by Scotch Brite (7446) Gloss Change (200 passes)	< 8.0%	> 30.0%

Scuff and scratch resistance – Wilsonart® HPL Laminate with AEON™ (All Grades)

* Some finishes disguise scuff and scratch marks better than others. Applying this test to a gloss surface provides the most accurate means for assessing visual and measurable performance.

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| FIRE PERFORMANCE

Group Classification Number AS/NZS 3837-1998 Group 1
Average Specific Extinction Area 10.3 m²/kg

| HEALTH & ENVIRONMENTAL DATA

Greenguard Gold Certification

ISO 14025 and EN 15804

Antibacterial properties – 24hr exposure >99.9% reduction

- Escherichia coli
- Pseudomonas aeruginosa
- Klebsiella pneumoniae
- Salmonella enteritidis
- Listeria monocytogenes
- Staphylococcus aureus
- Staphylococcus aureus MRSA

| CARE AND MAINTENANCE

Wilsonart® HPL Laminate require minimal maintenance and are easy to clean. For everyday cleaning, simply wipe the surface with a soft, damp cloth, warm water and a mild detergent then wipe dry. For stubborn stains, use an all-purpose cleaner.

Whilst laminate is hard wearing, sharp objects such as knives and blades will damage the laminate surface, reduce its longevity, look and performance. To prolong the look and life of the benchtop, it is strongly recommended not to cut directly on the surface, always use a chopping board or cutting matt.

Exposure to excessive heat will damage the laminate surface, it is thus not recommended placing hot cookware from the stove or oven directly onto the laminate without the protection of a heat proof matt or trivet.

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FABRICATION & 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.

Laminate must be bonded to a substrate of reliable quality, such as particleboard, medium density fibreboard or plywood with one “A” face. High-Pressure laminate, plaster, concrete and gypsum board should not be considered suitable substrates. Basic types of 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 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 24°C. Laminate should be conditioned at 45% to 55% relative humidity. With postforming machinery, Wilsonart 335 will postform at a nominal sheet temperature range of 163°C to 170°C in 20 ± 5 seconds.

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.

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| CONTACT

For further information on this product contact:

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