

Wilsonart® HPL Laminate

TECHNICAL DATA SHEET FOR SURFACE FINISHES – **C, M, NM, S, SG, WM**

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DESCRIPTION

As one of the most innovative decorative surface materials on the market, Wilsonart® HPL Laminate (High Pressure Laminate) offers long-lasting beauty and reliable performance at an affordable price.

Featuring on-trend decors and patterns that closely mimic the appearance of popular, concretes, marbles, and stones. Wilsonart® HPL Laminate provides a cost-effective alternative to engineered stones, solid surfaces, and woodgrains, and can be post-formed to a tight radius offering a modern appearance to countertops.

APPLICATION

Recommended for interior use only, Wilsonart® HPL Laminate 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.

SURFACE FINISHES

Featuring a selection of solid colours and patterned decors in surface textures that mimic the appearance of natural concrete, stone, and textured woodgrains.

# C	Concrete	A lightly textured non-reflective matt finish.
# M	Matt	A lightly textured finish with a moderate reflective quality.
# NM	Natural Matt	A smooth low reflective matt finish.
# S	Satin	A silky smooth finish with moderate reflective value
# SG	Straight Grain	A directional narrow, random, matte-satin linear texture running the length of the sheet.
# WM	Wood Matt	A matt embossed wood grain structure that is soft to the touch creating a sophisticated raw wood appearance.

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TECHNICAL DATA

Characteristics	Wilsonart HPL	NEMA Test
Standard Sheet Size	3650 x 1220mm	-
Nominal Thickness	0.8mm	0.8mm
Thickness Tolerance	± 0.10mm	± 0.10mm
Surface Wear Resistance (Revolution Cycles)	600-1200	400 (min)
Boiling Water Resistance (NEMA test) Boiling Water Resistance (ISO test)	No effect No effect	Slight effect N/A
High Temperature Resistance Hot Water Resistance How Wax Resistance	Slight effect Slight effect	Slight effect Slight effect
Radiant Heat Resistance	140 seconds	80 seconds (min)
Stain Resistance NEMA Test: Reagents 1-10 Reagents 11-15 ISO Test: Chemical Group 1 & 2 Group 3 & 4	No effect Slight effect 5 3	No effect Moderate effect N/A N/A
Dimensional Stability Machine Direction Cross Direction	0.4% 0.9%	1.1% (max) 1.4% (max)
Impact Resistance NEMA Test: Ball Impact	889mm	508mm
Cleanability (cycles)	20	20 (max)
Blister Resistance NEMA testing technique	32 ± 2 seconds	28 ± 2 seconds (min)

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

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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FIRE PERFORMANCE

Group Classification Number AS/NZS 3837-1998	Group 1
Average Specific Extinction Area	16.5 m ² /kg

ENVIRONMENTAL DATA

Greenguard Gold Certification
Green Label Singapore
ISO 140001/ ISO 9001

CARE AND MAINTENCE

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 cutting 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.

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.

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FABRICATION & ASSEMBLY RECOMMENDATIONS - Continued

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 laminate 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.

CONTACT

For further information on this product contact:

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