

FOSSIL TECHNICAL SPECIFICATIONS

For Products Description for Custom High Pressure Laminate (CHPL)

Solid Composite Panels

General Description.

Fossil solid composite panels are, fire retardant, impervious to moisture, extremely resistant to UV rays, scratching, impact, and graffiti. Fossil outdoor panels are protected with a 10 year UV inhibitor. Graphics are made using 12-Color High Definition printing technology. Panels are entirely made in the U.S.A. Thickness from 0.028" to 1". Grades over 1/2" are self-supporting and can be fitted with threaded inserts.

Laminate Grades

General Description.

Laminate grades are manufactured with a smooth sub-surface image on one side and a sanded surface on the other side to allow proper bonding to the supporting substrate. Bonding FOSSIL laminate panels to substrate materials should be done according to the proven principles of veneering. Particleboard and MDF are among the many suitable substrates on which a FOSSIL laminate grade panels can be bonded. Fossil 0.028" panels can be formed to simple bends and profiles. FOSSIL 0.048" is a general purpose panel suitable for practically all flat (horizontal or vertical) applications. Panels are fire retardant, resistant to moisture, extremely resistant to UV rays, scratching, impact, and graffiti. Fossil outdoor panels are protected with a 10 year UV inhibitor. Graphics are made using 12-Color High Definition printing technology. Panels are entirely made in the U.S.A.

Thickness:

0.028"	(.889mm)
0.048"	(1.2mm)
.090"	(2.3mm)
1/10"	(2.5mm)
1/8"	(3mm)
1/4"	(6mm)
1/2"	(12mm)
3/4"	(19mm)
1"	(25mm)

Weight:

Grade	Pounds Per Sq. Ft.
0.028"	= 0.30
0.048"	= 0.34
1/10"	= . 0.73
.90"	= . 0.91
1/8"	= . 0.91
1/4"	= 1.8
1/2"	= 3.6
3/4"	= 5.4
1"	= 7.2

Surface Finish:

Semi-Gloss: A reflective finish that accentuates detail and diminishes reflective light. Reflectivity of 30 + or - 5 gloss units. UV Inhibitors added to outdoor finish.

Core Color:

Black

Strength:

M.D. Machine Direction Length of the sheet

C.D. Cross Direction Width of the sheet

P.S.I. Pounds Per Square Inch

Ft/Lbs/IN Foot Pounds Per Inch

Comprehensive Strength:

M.D. 193,064 Kpa (31,000 PSI) C.D. 172,378 Kpa (25,000 PSI)

Tensile Strength:

M.D. 151,693 Kpa (22,000 PSI) C.D. 110,322 Kpa (16,000 PSI)

Flexural Strength:

M.D. 158,588 Kpa 23,000 PSI) C.D. 103,427 Kpa (15,000 PSI)

Impact (Edgewise):

M.D. 0.6 FT/LBS/IN C.D. 0.5 FT/LBS/I

Rockwell Hardness M Scale:

95 to 115

PRODUCT PROPERTIES:

Product Description:

Custom High Pressure Decorative Laminate consisting of decorative surface papers, impregnated with melamine resins, bonded under heat and pressure to kraft papers impregnated with phenolic resins.

NEMA:

FOSSIL CHPL panels exceed the standards for decorative laminates established by the National Electrical Manufacturers Association NEMA LD3-1991. These standards establish the minimum criteria for resistance to wear, boiling water, high temperature, cigarette burns, fading, dimensional stability, staining, appearance and formability (bending and postforming grades).

Chemical & Stain Resistant:

FOSSIL panels are perfectly suited for commercial use where chemical products are used. They are resistant to common house-hold products, solvents, mild alkalis, and diluted mild acids. Some staining agents, especially those with grease bases paint or ink, will require the use of a solvent for removal. These stains can be removed using turpentine, 100% mineral spirits, isopropyl "rubbing alcohol", Goof Off "Graffiti Remover" or WD-40, lacquer thinner, acetone or MEK.

Static Electricity:

FOSSIL CHPL panels do not store static electricity and are therefore suitable for use in controlled environments where accumulation and retention of static electricity must be avoided.

Fire Retardant:

FOSSIL CHPL & CFBL interior panels are suitable for application where fire retardant properties are required by building codes.

CHPL Sheet Thickness: 0.028" (.889mm)

1. Class A Rating.
2. Meet or Exceeding performance requirements of NEMA LD 3-2005 Grade VGF.
3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 25-40; Smoke developed 100-170.

CHPL Sheet thickness: 0.028" (.889mm) to 0.048"

1. Class A Rating.
2. Meet or Exceeding performance requirements of NEMA LD 3-2005 Grade HGF.
3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 25; Smoke developed 95-120.

CHPL Sheet thickness: 1/8" to 1" (8.5mm to 25.4mm)

1. Class A Rating.
2. Meet or Exceeding performance requirements of NEMA LD 3-2005.
3. Surface burning characteristics in accordance with ASTM E 84; unbonded: Flame spread 10; Smoke developed 95.

Toxicity Test: LC50 Pittsburgh Protocol Toxicity Test. Equal to and no more toxic than wood or paper.

Dimensional Change:

Thickness: .028". NEMA STD. VPG: Machine Direction 1.1 (Max). Cross Direction 1.4 (Max).

Thickness: .048". NEMA STD. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 1/16". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 1/8". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 1/4". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 1/2". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 3/4". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

Thickness: 1". NEMA LD3. HGS: Machine Direction 0.50% (Max). Cross Direction 0.80% (Max).

NSF Product Listing: NSF/ANSI Standard 35 - Laminated Plastics for Surfacing Food Service Equipment

DISCLAIMER:

This information is presented to assist you in determining what grades of material may meet the requirements of your project. Purchaser shall determine the suitability of the product for its' intended use, and purchaser assumes all risks and liability whatsoever in connection therewith. All statements, technical advice and recommendations contained herein are based on tests and information believed to be reliable, but the accuracy there of is not guaranteed, and is made in lieu of all warranties, express or implied: seller's and manufacturer's only obligation shall be to replace the quantity of product proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product.



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