

ABET LAMINATI

TECHNICAL DATA MEG HIGH PRESSURE LAMINATE FOR EXTERIOR APPLICATIONS - R605

MANUFACTURER

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PRODUCT DESCRIPTION

Basic Use: ABET LAMINATI MEG self supporting high pressure laminate for exterior applications provides a high quality product for facade cladding that is durable and has excellent physical and surface properties. Other applications include under window panels, cornices, coping, benches, road signs, and balcony panels.

This homogeneous, high density exterior laminate provides a panel with the following outstanding properties compared to woodcore and other exterior panels:

- Surface is non-porous and chemically inert.
- Sunlight and other atmospheric agents such as rain, hail, wind, and salinity do not affect the decorative surface.
- Common, non-abrasive, household detergents can be used to remove dirt and grime.
- The resistant chemical composition and the closed structure of the MEG panels prevent spray paints, inks and markers, lipsticks, and pastel crayons from clinging to the surface.
- Natural changes in temperature and humidity have no adverse effects on MEG's appearance.
- Environmentally friendly
- Termite proof
- The homogeneity and high density of the panel ensures maximum retention of fasteners such as screws and fasteners.
- Will not support micro-organic growth
- The high modulus of elasticity and tensile and flexural strength properties give high impact resistance properties.

Composition: MEG exterior panels consist of layers of cellulose fibers that are impregnated with thermosetting resins and bonded under high pressures. The surface layers consist of solid color and decorative sheets that are impregnated with amino resins and a weatherproof and lightfast protective outer coating. The core layers consist of sheets impregnated with phenolic resins. The layers are combined together under heat (approximately 300 degrees F) and high pressures. The high density material obtained is homogeneous, stable, non-porous, and chemically inert with excellent mechanical properties. These properties make it particularly suitable for use in a wide range of exterior applications.

Limitations: MEG contracts under conditions of low humidity and expands in high humidity environments. The panels should be conditioned at the site in which it is to be applied. Provisions must be made for adequate gap, larger holes and seals, wide-headed screws, etc. Screw heads must not be embedded in the drilled hole. The panels must not be assembled too closely together. Excessive wiping and the use of abrasive materials that could cause surface abrasions and scratches should always be avoided. Panels must always be shipped and stored in a flat, horizontal position.

Colors and Patterns: Meg is available in four color collections that are capable of satisfying customer needs.

Finishes: View sample.

Sheet Size: See company brochure. Depends on thickness and color.

Fabricated Panel Size: Plus or minus 1/32" (.8mm) maximum

Panel Thickness: 1/4", 5/16", 3/8", and 1/2". Other thicknesses available on special order.

Thickness Tolerances: Plus or minus 5% maximum.

Density: 87 lbs/cubic foot minimum

TECHNICAL DATA

Physical and Mechanical Properties of MEG Exterior Laminate

Description	Standard Test Method	MEG Values
Color Fastness	ISO 1482	Minimum 3 on Grey Scale
Scratch Resistance	EN438 2.26	Minimum 2 N
Stain Resistance	EN 4.38 2.15 Groups 1 & 2 Groups 3 & 4	Grade 5 Grade 4
Boiling Water Resistance	EN 4.38 2.7	Max. 2 % weight increase Max 2% thickness increase
Abrasion Resistance	EN 4.38 2.6	Minimum 150 cycle IP Min. 350 cycle abrasion
Dimensional Stability at High Temperature	EN 4.38 2.9	0.25 % max. length 0.55 % max. width
Impact Strength Large Ball Drop Test	EN 438 4.12	Min. 2.5 meter drop Max 10 mm dent No breaks in surface
Rockwell Hardness	ASTM D-785	Approximately 95 HRE
Modulus of Elasticity	ISO 178	1,200,000 psi minimum
Tensile Strength	ISO 527	13,000 psi minimum
Flexural Strength	ISO 178	16,000 psi minimum
Shear Strength	ASTM D-732	Approximately 49,500 N

MAINTENANCE AND CARE

Dirt on MEG surfaces can be cleaned with using common, non-abrasive, household detergents n-abrasive household detergents using a soft cloth or sponge. Rinse the surface with water to remove detergent residue. Excessive wiping or rubbing and the use of abrasive materials may cause scratches or surface abrasions. 3M Graffiti GR 1 may be used to remove hard stains or graffiti.

TECHNICAL SERVICE

For samples, literature, and technical service assistance, call our toll-free line 800-228-2238 from 8:30AM to 5 PM, Monday thru Friday, or visit our web site www.abetlaminati.com.