Technical Data Sheet
3001 C (Rev. 11.10)

NUDO® BPLite™
FUNCTIONAL PANELS

BPLite panels are solid sheets composed of high-density polyethylene (HDPE). An embossed panel designed for interior wall finishes where a washable, durable panel is needed. BPLite is a durable, flexible building material that is resistant to mold, mildew and corrosion – it is available with an optional antimicrobial treatment. The panel has a Class C rating for flame spread and smoke developed when tested per ASTM E-84.

Table 1
Physical Properties

	Typical Value	Typical Value	Test Method
Property			
Surface Burn Test	Class C	Class C	ASTM E84
Flexural Strength	3,460	lbf/in^2	ASTM D790
Flexural Modulus	110,068	psi	ASTM D790
Flexural Load			ASTM D790
Tensile Strength	3.570	psi	ASTM D638
Tensile Modulus			ASTM D638
Barcol Hardness			ASTM D2583
Izod Impact	1.70	ft-lbs/in	ASTM D256

Table 2
Physical Properties

	Nominal Panel Thickness	Nominal Panel Weight	Color	Size
Part No.				
NLP-RE9	.90"	1.0 psf	Black, beige, white, charcoal gray	4' x 8' (1.2 m x 2.4 m) 4' x 10' (1.2 x 3 m) Non-standard sizes available in most colors, made-to order.

Specifications
The BPLite panels are manufactured with state-of-the-art laminating equipment and adhesives.

Composition
1. High-density polyethylene (HDPE).

Finish Panel Quality
1. The front side shall be embossed with a textured type finish. Colors shall be throughout the panel, and manufactured as specified.
2. The backside shall be smooth. Backside imperfections which do not affect functional properties are not cause for rejection.
3. Physical properties shall be set forth in Table 1.
4. Product quality standards and tolerance for panel weight and thickness shall be set for in Nudo Product, Inc. Quality Control Procedures / Standards which are available upon request.
5. Dimensions shall be specified on purchased order, subject to the following tolerances:
   a. Width: +/- 1/8" (3.2mm)
   b. Length: +/- 1/8" (3.2mm)
   c. Squareness: not more than 1/8" (3.2 mm) out of square
6. Panels shall be installed in accordance with the manufacturer's guidelines as set forth in the installation guide.

Certification
1. Meets the minimum requirements of the major model building codes for Class C interior wall finishes. Flame spread of less than 200, smoke developed less than 450 per ASTM E-84.

Fabricating Recommendations
Note: Protect your eyes with goggles; cover your nose and mouth with a filter mask when cutting BPLite panels. When cutting BPLite, position the panel so that the saw blades enter the decorative side first, to avoid chipping and damage.

Hand Fabricating: Drilling – high speed drill bit (60° cutting angle, with 12°- 15° clearance) or hold saw. Cutting: 72-tooth circular saw with reinforced carboundrum or carbide-tipped blade.

Storage
BPLite should be stored horizontally indoors on the contiguous flat surface. Panels should never be stored on the floor or against an outside wall. Optimum storage conditions are 60° F (16° C) to 75° F (24° C) and 35% to 55% relative humidity.

Preconditioning
Prior to installing BPLite, remove the packaging materials and allow the panels to acclimate to room temperature and humidity for at least 48 hours. Ideally, the room temperature and humidity during acclimation and installation should be the same as the final operation conditions.

Product Limitations
BPLite is designed as an indoor decorative panel. It should never be exposed to extremely high or extremely low moisture conditions. BPLite is designed to be installed over a solid wall surface and should never be directly installed over studs, concrete, concrete block, or non-insulated exterior walls. BPLite should be installed between 60° F (16° C) to 75° F (24° C) and 35% to 55% relative humidity. Non-compliance with product limitations may affect future performance and voids warranty.

Cleaning Instructions
BPLite is easy to clean. In most cases, use a clean damp, non-abrasive cotton cloth and a mild liquid detergent or household cleaner. Always rinse with clean water and a clean, non-abrasive cotton cloth.

DO NOT USE: Abrasive cleaners with bleach, cleaners with acid, alkali or sodium hypochlorite. They will damage and permanently discolor the surface. Be sure that bottles, rags or other materials with these cleaners never come in contact with the surface.

Examples of harsh cleaners to avoid include but are not limited to: Bleach, Drain Cleaners, Metal Cleaners, Oven Cleaners, Rust Removers, Tub and Tile Cleaners, Lime Scale Remover.

Removal of Stains
To remove stains, use full strength Fanstastik, all Purpose Cleaner, Formula 409, Pine-Sol, or other mild household cleaners. Blot with clean, damp, non-abrasive cotton cloth and rinse with clean water. When recommended cleaner changes its formulation, the change may be harmful to the surface. Nudo Products, Inc. cannot be held responsible for these changes. Follow all directions and warnings on the cleaner label because some are extremely flammable.

Dyes and pharmaceutical products will permanently stain the panels. These include hair dyes and rinses, silver nitrate, laundry bluing, tannic acid, povidone-iodine, dermatological tar compounds, and peroxide. To reduce these stains, apply a paste of baking soda and water on the area to pull out the stain. Do not rub, as the paste will be slightly abrasive. Wipe up the paste with a clean, damp, non-abrasive cotton cloth, and rinse with clean water.

Stains that are stubborn or even permanent and may not disappear include: wood stains, cash register inks, newsprint, marking pen inks, indelible ink, food pricing ink, and label inks.

Stubborn stains that may disappear on their own after a short time or after repeated cleaning include food stains, glass rings, water marks, coffee and tea stains.

FLAME SPREAD AND SMOKE DEVELOP RATINGS: The numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by Nudo Product, Inc. products or any other material under actual fire conditions. These ratings are determined by small-scale tests conducted by Underwriters Laboratories and other independent testing facilities using the American Society for Testing and Materials E-84 test standards (commonly referred to as the "Tunnel-Test".) NUDO PRODUCTS, INC. PROVIDES THESE RATINGS FOR MATERIAL COMPARISON PURPOSES ONLY. Like other organic building materials (i.e., wood) panels made up of composite material will burn. When ignited, it may produce dense smoke very rapidly. All smoke is toxic. Fire safety requires proper design of facilities and fire suppression systems, as well as precautions during construction and occupancy. Local codes, insurance requirements and any special needs of the product user will determine the correct fire-rated interior finish and fire suppression system necessary for a specific installation.

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions of use are beyond our control, the user assumes all risks. Nothing herein shall be considered as a recommendation for use that infringes on valid patent are as extending a license under valid permit.

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