

# Acrylic Printed Films – Specialty Laminates

## Product Information Sheet



### High Fidelity Printed Acrylic Films Offer Intricate Design and Color

OMNOVA offers low gloss and high gloss printed acrylic films in a variety of original stone, woodgrain and abstract designs. Our acrylic printed films are used in many applications, including bath and shower surrounds, retail displays, all-terrain vehicles, vehicle dashboards or any component that is flat laminated or thermoformed and needs a printed decorative design.

Our highly durable, UV-resistant and cleanable acrylic films are formulated to process well and laminate to a variety of substrates. They are printed in a variety of widths up to 92" depending on the design.

### Benefits

- High fidelity printing offers beautiful and intricate design and color execution
- Outstanding UV protection, resistant to fade, chemicals, abrasion and detergent, color and gloss stability and non-yellowing
- Extensive library of abstract, stone and marble patterns
- Custom design studio offers industry-best design cycle with quick turnaround through digital sampling
- Domestic production eliminates long lead times
- Once laminated, the finished product is easy to clean and may be seamless

### Physical Properties

|   | Typical Test Results            | Comments  |
|---|---------------------------------|---|
| <b>Thickness</b>                              | 2-3 mil (0.002" - 0.003") ± 10% |   |
| <b>Film Opacity</b>                           |                                 | Results depend upon film type (gloss/matte) and print |
| <b>Gloss</b>                                  | 15 to 150                       | 60° gloss meter, ASTM D 523                           |
| <b>Shrinkage, Machine Direction (average)</b> | 7.1%                            | 12" by 12" sample at 100° C for 10 minutes            |
| <b>Shrinkage, Cross Direction (average)</b>   | 1.4%                            | 12" by 12" sample at 100° C for 10 minutes            |
| <b>Tensile Strength (minimum)</b>             | 3000 psi                        | ASTM D 882  |
| <b>Light Fast (minimum)</b>                   | 1000 hours                      | Xenon arc light at 300-400 nm                         |

### 24-Hour Stain Resistance

| Staining Agent                | Typical Test Results | Stain Test Conditions:   |
|-------------------------------|----------------------|--|
| <b>Household Ammonia</b>      | No change            | 3 mL of staining agent applied at room temperature in a vertical position and allowed to stand for 24 hours before being cleaned.<br><br>Laminating method, substrate type, product handling and use environment can affect test results.<br><br>*Note: Olive oil is intended to represent the most common cooking oils, grease and lightweight industrial oils. |
| <b>Citrus Juice</b>           | No change            |  |
| <b>Mustard</b>                | No change            |  |
| <b>Coffee</b>                 | No change            |  |
| <b>Tea</b>                    | No change            |  |
| <b>Olive Oil*</b>             | No change            |  |
| <b>Wax Crayon</b>             | Slight change        |  |
| <b>Hydrochloric Acid, 10%</b> | Slight change        |  |
| <b>Amyl Acetate</b>           | Definite change      |  |
| <b>Methyl Alcohol</b>         | Moderate change      |  |

## Care & Cleaning

To maintain the appearance and performance of OMNOVA Specialty Laminates Acrylic Films, surfaces should be kept dry and cleaned with a soft cloth moistened only with water. Wax crayons, permanent markers, methyl alcohol and harsh solvents will change the surface of the film and should be avoided. Also avoid acidic and abrasive cleaners, such as Comet® Cleaners and Powders, Scrubbing Bubbles® Bathroom Disinfectant Bathroom Grime Fighter Aerosol (citrus scent), Spic and Span® and harsh cleaning tools like rough sponges and Mr. Clean® Magic Erasers.

## Fabrication Recommendations

Printed acrylic films are recommended for flat lamination to a variety of substrates, including ABS, HIPS, PVC, polycarbonate and polystyrene. The flat lamination process can cause stress on acrylic printed films, which may affect some or all properties. To achieve the best results, OMNOVA recommends that temperatures are kept as low as possible with the acrylic film shielded from the heat of the extruder during the lamination process. These precautions can help limit surface stretch to 10% or less, maintain color integrity and limit image distortion. Laminated acrylic films are suitable for thermoforming.

## Storage & Handling

OMNOVA printed acrylic films are susceptible to heat and pressure. Extreme temperature and pressure can affect product characteristics and performance. Due to shipping and storage variations, shelf life cannot be guaranteed. However, the following storage and handling guidelines will help ensure optimal performance:

- Keep product in its original, suspended packaging, partial rolls included
- Storage conditions should maintain a temperature range of 55° to 75°F and a relative humidity of approximately 50%
- High humidity can cause moisture, which may weaken the bond during lamination or possibly cause blocking within the roll
- Product should be acclimated 48 hours prior to processing
- For disposal of product, OMNOVA recommends that local and regional regulatory agencies are consulted before disposal of process scrap

*Though OMNOVA Laminates can be used in many applications, all laminates are sold with the understanding that customers will make their own independent determination whether a particular laminate has the durability and other performance attributes required for the specific end use laminate application – not all laminates are suited for all applications.*

For the latest designs, more information or to place an order, contact OMNOVA Solutions:

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