

STANDARD ACRYLIC PRINTED FILM

PHYSICAL PROPERTIES

	Typical Test Results	Comments
Thickness	2 - 6 mil (0.002" - 0.006") ± 10%	
Film Opacity		Results depend on film type (clear/matte) and print.
Gloss	15 - 150	60-degree gloss meter, ASTM D 523
Shrinkage Machine Direction (average)	7.1%	12" by 12" sample @ 100°F for 10 minutes
Shrinkage Cross Direction (average)	1.4%	12" by 12" sample @ 100°F for 10 minutes
Tensile Strength (minimum)	3,000 psi	ASTM D 882
Light Fast (minimum)	1,000 hours	Xenon arc light @ 300 - 400 nm

24 HOUR STAIN RESISTANCE

Staining Agent	Typical Test Result	Comments
Household Ammonia	No appreciable discoloration or stain	Test demonstrated favorable results with no apparent change in color or stain
Mustard	No appreciable discoloration or stain	Test demonstrated favorable results with no apparent change in color or stain
Coffee / Tea	No appreciable discoloration or stain	Test demonstrated favorable results with no apparent change in color or stain
Cooking Oil*	No appreciable discoloration or stain	Test demonstrated favorable results with no apparent change in color or stain
Wax Crayon	Slight change	
Hydrochloric Acid 10%	Slight change	
Amyl Acetate	Slight change	
Methyl Alcohol	Moderate change	

* Olive oil is intended to represent most common cooking oils, grease and lightweight industrial oils.

Stain Test Conditions: 3 mL of staining agent applied at room temperature in a vertical position and allowed to stand for 24 hours prior to being cleaned. Laminating method, laminating adhesive, substrate board type, product handling and use environment can affect test results.

Care and Maintenance: To maintain the appearance and performance of our Specialty Laminates, OMNOVA recommends that the surface be kept dry and cleaned with a soft cloth moistened with water only. In stain tests, wax crayons, permanent markers and harsh solvents changed the surface of the film and therefore should be avoided.

Machining and Lamination: The laminating process can cause severe stress on our Specialty Laminates, which can affect some or all of their properties. To achieve the best results, OMNOVA recommends that temperatures within the laminating process be kept as low as possible and the laminate shielded from the heat, precautions which can help limit surface stretch to 10% or less, maintain color integrity and limit dot spread.

Disposal: OMNOVA recommends that local and regional regulatory agencies be consulted prior to disposal of process scrap.

Laminate Selection: Though our 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 suitable for all applications.*

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