

PRODUCT DATA SHEET

Avery Dennison® Organoid Natural Surfaces - Translucent Issued: 10/2021

Introduction

Natural Surfaces from Organoid® are made of natural raw materials. The translucent versions consist of Rose Petals, Sunflowers Petals or Skeleton Leaves (white or anthrazit). They retain most of their natural properties, and allow a multi-sensorial experience such as their fragrance, feel, and look. The face films are handcrafted in a carbon responsible way and are specially designed for new interior decoration, providing a natural and elegant touch to the area.

Conversion

Organoid Natural Surfaces offer good manual and digital cutting performance. While kiss-cutting was found challenging, both cutting-through and laser cutting of Organoid Natural Surfaces provided outstanding results using Zund digital cutting systems and EuroLaser equipment respectively. Cutting-through is as well possible with most plotting systems available in the market using a heavy duty knife. For more

Information on cutting, application, maintenance and removal please refer to TB. 3.22. Application of Organoid Natural Surfaces. To ensure application suitability, the substrate/adhesive compatibility and satisfactory product performance always do a pilot test of the proposed construction under actual application conditions before going into full scale production.

Recommendations

Indoor architectural applications. The removable translucent versions are ideal options for indoor glass windows, doors and glass partitions, offering a degree of privacy. At the same time, the high tack adhesive of the permanent versions ensures excellent adhesion on a wide variety of other difficult substrates such as smooth and slightly textured walls, plasterboard, chipboard, metal, concrete, furniture surfaces among others.

Features

- » Highly decorative and minimalistic natural surface for new interior decoration designs
- » Translucent surfaces providing a degree of privacy
- » Excellent preservation of the natural characteristics of surface
- » Eco-friendly product due to the organic origin of the Organoid Natural Surface
- » Robust interior durability up to five years
- » Excellent adhesion to a wide variety of substrates (permanent version)
- » Removable version ideal for glass application
- » Easy to cut and apply
- » Interior application only - without direct UV exposure and for vertical usage



Face Film

Organoid Natural Surfaces: Rose Petals, Sunflowers Petals or Skellet Leaves (white or anthrazit)



Adhesive

Removable or permanent acrylic adhesive PET reinforced for mechanical and dimension stability



Backing

Glassine Paper (white: removable, yellow: permanent)



Durability

5 years, indoor



Shelf Life

18 months

Physical Characteristics

	Test method ¹	Results	
Product Rose Petals			
Surface Coverage (%)		65	
Caliper, adhesive (micron)	ISO 534	104	
Dimensional stability (mm max.)	FINAT FTM 14	0.53	
		permanent	
Adhesion, initial (N/25mm)	FINAT FTM-1, stainless steel	28.5	
Adhesion, after 24 hours (N/25mm)	FINAT FTM-1, stainless steel	30.3	
Product Sunflower Petals			
Surface Coverage (%)		65	
Caliper, adhesive (micron)	ISO 534	104	
Dimensional stability (mm max.)	FINAT FTM 14	0.53	
		permanent	
Adhesion, initial (N/25mm)	FINAT FTM-1, stainless steel	22.4	
Adhesion, after 24 hours (N/25mm)	FINAT FTM-1, stainless steel	25.5	
Product Skellet Leaves (white or anthrazite)			
Surface Coverage (%)		85	
Caliper, adhesive (micron)	ISO 534	104	
Dimensional stability (mm max.)	FINAT FTM 14	0.16	
		permanent	removable
Adhesion, initial (N/25mm)	FINAT FTM-1, stainless steel	22.7	4.2
Adhesion, after 24 hours (N/25mm)	FINAT FTM-1, stainless steel	22.5	4.8
Other Product Properties			
Shelf life (years)	Stored at 22° C/ 50-65 % RH	1.5	
Indoor Durability ² (years)	Vertical exposure	5	
Chemical resistance	Low chemical resistance to mild acids and alkalines.		
Temperature range			
Application temperature (Minimum: °C)		10	
Service temperature (°C to +°C)		10 - 40	
Certificates and test method			
Fire. EN13501*	C-s1, d0		
VOC Emissions. AgBB 2018	Pass**		
	Clearly perceptible and/not bothering		

Odour testing. VDA recommendation 270:2018-06

Resistance to fungus and wicking. DIN EN 16492 2014

Skeleton Leaves: High

Rose and Sunflower Petals: Low to moderate

*The test has been performed using gypsum plasterboard

** Tested on Rose Petals

Special Notes

The rose and sunflower petals and skeleton leaves are Organoid® surfaces 100% handmade. There can be areas with higher and lower coverage. That is the natural look of this surface and the product is fit for application as long as the total coverage is met. In the case of the Skeleton Leave Surface the coverage with leaves is of approx. 85%. That means there could be a limited number of small spots without leaves.

Similar to other materials made of natural fibers, our natural surfaces also breathe, i.e. they swell and shrink with the change in humidity in the room. This biochemical process can cause individual parts to detach from the surface. This is not a loss of quality, but a sign of the authenticity of the surface.

Organoid Natural Surfaces consist of natural plant fibers, which is why individual products of the same type may differ slightly in color, scent or fiber properties. Deviations (such as but not limited to are: slightly different colors, lengths and diameters of fibers as well as coverage) of these biological characteristics therefore do not constitute defects and do not provide a basis for warranty claims. We do our best to keep the variation in natural characteristics as low as possible by carefully checking each of our raw materials, labelling them with a batch number and trying to use natural materials from the same batch for larger deliveries.

Organoid Natural surfaces are made of 100% natural raw materials and are subject to the natural aging process especially through UV light. Due to the manufacturing process of the natural raw materials slightly colored pressing joints may appear with an interval of 3 m. The event of tunneling on the liner paper can be caused by humidity exchange between the liner and room humidity, thus the control of the relative humidity is very important. For further information about what is considered a defect, please refer to TB 3.22 Preparation and Application of Avery Dennison Organoid Natural Surfaces.

Important

Information on physical and chemical characteristics and values in this document are based upon tests we believe to be reliable and do not constitute a warranty. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material to their specific use.

All technical data are subject to change. In case of any ambiguities or differences between the English and foreign versions of this document, the English version shall be prevailing and leading.

1) Test methods: More information about our test methods can be found on our website.

2) Durability: The durability is based on middle European exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing south; in areas of long high temperature exposure such as southern European countries; in industrially polluted areas or high altitudes, exterior performance will be decreased..

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