

TRANSONYX

PRODUCT DATASHEET



I. MATERIAL DESCRIPTION

All TransOnyx are individually made in a manual process and therefore every panel is unique. TransOnyx is made of natural stone powder and a small fraction of high-quality resin and other additives. The surface of the panel is either gloss or matt and the panels are standard made for one side use. Additional sanding and polishing is possible.

PANEL DIMENSIONS

- Size: 48" x 96"
- Thickness: 6mm, 8mm, 10mm, 12mm

II. TECHNICAL SPECIFICATIONS

Linear coefficient of thermal expansion	0.4 mm/m/50°F
Maximum temperature for continuous use	176°F
Density	1.19 g per cm ³
Izod shock resistance	78°F
Force needed to break	43 MPa
Tensile modulus	4550 MPa
Light transmission	>20%
Thickness tolerance	+/- 10% of nominal thickness
Water absorption	0.1%
Luminous transmittance	92.8%
Maximum span	500mm (8mm thickness normal use)
Flammability (ASTM E84)	Class A

EXPANSION

TransOnyx will expand and contract nominally with fluctuations in temperature. The following formula provides allowances that should be made in framed or fitted applications:

- Longest length of panel (inches) x temperature change of the sheet (°F) x 0.00003 = Amount of Linear Expansion/Contraction (inches) example
- A 26" x 28" panel that experiences a 70°F temperature change will expand/ contract: 28 inches x 70 degrees x 0.00003 = 0.0588 inches

Expansion and contraction allowances should also be made in the following situations:

- Fastening points
- Channel depths in frames
- Holes for standoffs and other hardware
- Meeting points for multiple panels of TransOnyx

III. SAFETY DATA

COMPOSITION/INFORMATION ON INGREDIENTS

This material is classified as not hazardous under OSHA regulations.

Ingredients: Calcium carbonate (stone powder, 80%), resin (15%) and other additives (5%)

HAZARDS IDENTIFICATION

- **Emergency Overview**
 - Color: colorless or colored
 - Appearance: solid in various forms
 - Odor: odorless
 - Under normal conditions of use, this product is not expected to create any unusual industrial hazards.
- **Primary Routes of Exposure**
 - Eye contact (if exposed to chips)
- **Potential Health Effects**
 - Inhalation: No hazard expected in normal use.
 - Eye Contact: No hazard expected in normal use.

IV. FLAMMABILITY DATA

PROPERTY	TEST METHOD	RESULTS
Maximum Flame Spread (Ft)	ASTM E-84	3 ft
Time to maximum spread	ASTM E-84	533 seconds
Fallout	ASTM E-84	Yes
FS*Time area	ASTM E-84	13.0 (ft*min)
Smoke area (%A*min)	ASTM E-84	26.9
Red oak smoke area	ASTM E-84	90.8
Flammability (ASTM E84)	ASTM E-84	Class A

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TransOnyx is a combustible thermoplastic and is classified by ASTM as a slow burning plastic. Precautions should be taken to protect the material from flames and high heat sources. Access panels may be required for evacuation and venting of rooms glazed with TransOnyx panel. Generally speaking, the same fire precautions that are observed in connection with the use of any ordinary combustible material should be observed when handling, storing or using TransOnyx.

While these test data are based on small-scale laboratory tests frequently referenced in various building codes, these tests do not duplicate actual fire conditions.

The products of combustion, if sufficient air is present, are carbon dioxide and water and are therefore non-toxic. However, in many fires, sufficient air will not be available and toxic carbon monoxide will be formed, as it will from other common combustible materials. Burning TransOnyx does not produce either excessive quantities of smoke or gases more toxic than those produced by burning wood or paper. The concentration of carbon monoxide and/or carbon dioxide released by burning TransOnyx is a factor of the quantity of TransOnyx involved and the conditions of burning. Consequently, it is accepted for interior finish including lighting panels in contrast to styrene-based products, which produce a black noxious, smoke.

V. APPLICATIONS OF CHEMICAL

	RESISTANT	LIMITED RESISTANT	NON-RESISTANT
Acetone			●
Ammonia	●		
Bar soap, 5%	●		
Citric Acid, 10%	●		
Coffee	●		
Distilled Water	●		
Ethyl Alcohol, 50%	●		
Ethyl Acetate			●
Grape Juice	●		
Household Detergent, 5%	●		
Ink		●	
Iodine, 10%		●	
Isopropyl Alcohol, 70%	●		
Hydrogen Peroxide, 28%	●		
Nail Polish Remover		●	
Permanent Marker		●	
Food Dye		●	
Shoe Polish		●	
Tap Water	●		
Tea	●		
Trisodium Phosphate, 1%	●		
Vinegar	●		
Wax Crayon		●	

*****Disclaimer:**
The above documentation has been made with care. However, it is the full responsibility of the client or user to investigate in all relevant aspects whether the material and the way it is used is suitable and safe for the intended application. Horne Wall & Décor is not responsible/liable for any mistakes in the above text.