



Adhesive Tape Systems  
For Sign and Display Markets









Located just outside of Berlin in the heart of Europe, the ORAFOL Europe GmbH headquarters is the hub of the organization's culture of leadership and excellence.



# Index

## Adhesive Tape Systems For Sign and Display Markets

Page	Table of Contents
	<b>ORABOND™ Transfer Tapes</b>
10	ORABOND™ 1375 High Performance Acrylic Transfer Tape 
10	ORABOND™ 1377 High Performance Acrylic Transfer Tape 
10	ORABOND™ 1325 High Performance 2.4 mil Transfer Tape 
10	ORABOND™ 1327 Transfer Tape 
10	ORABOND™ 1328 High Performance 5 mil Transfer Tape
	<b>ORABOND™ AM2 Double-sided Adhesive Tapes</b>
14	ORABOND™ 1392TM Performance Double-Sided White Tape
14	ORABOND™ 1395TM General Purpose Double-Sided Film Tape
14	ORABOND™ 1397PP High Performance Double-Sided Tape
15	ORABOND™ 1397TM High Performance Double-Sided Tape
15	ORABOND™ 1399TM High Performance Double Coated Tissue Tape
15	ORABOND™ 1812TM High Performance Double-Sided Foam Tape
	<b>ORABOND™ Specialty Adhesive Tapes</b>
18	ORABOND™ 1331TM Permanent/Removable Double Coated Tape
 18	ORABOND™ 1852 Permanent/Removable Double Coated Tape
	<b>ORABOND™ Double-sided Adhesive Tapes with Foam Carriers</b>
22	ORABOND™ 1810 High Performance Double-Sided Foam Tape 
22	ORABOND™ 1812TM High Performance Double-Sided Foam Tape
23	ORABOND™ 1831 General Purpose Double-Sided Foam Tape
 23	ORABOND™ 1852 Permanent/Removable Double Coated Tape
	<b>ORABOND™ Carpet Tape</b>
24	ORABOND™ 1362 Premium Exhibition Carpet Tape
24	ORAFOL® Adhesives
25	Product Overview (All Sign & Display Tapes except ORABOND™ UHB Tapes)
	<b>ORABOND™ UHB Tapes with an Ultra High Bond</b>
28	ORABOND™ UHB04064G Ultra High Bond (UHB)
28	ORABOND™ UHB03064W Ultra High Bond (UHB)
28	ORABOND™ UHB03025T Ultra High Bond (UHB)
28	ORABOND™ UHB03050T Ultra High Bond (UHB)
28	ORABOND™ UHB03080G Ultra High Bond (UHB)
29	ORABOND™ UHB03100T Ultra High Bond (UHB) 
29	ORABOND™ UHB03110G Ultra High Bond (UHB) 
29	ORABOND™ UHB03110W Ultra High Bond (UHB) 
29	ORABOND™ UHB04200G Ultra High Bond (UHB)
29	ORABOND™ UHB04150G Ultra High Bond (UHB)
30	ORABOND™ UHB Tapes Adhesion Guidelines for Substrates



## Sign & Display Applications

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Bonding A frame signs

Fixing box signs - panels to frames

Large panel signs

Bonding clear polycarbonate for illuminated signs

Fixing housings and light units in emergency signs

Name plate bonding

Bonding plate signs

Fixing individual letter signs

Point of sale bonding

Construction of obelisk signs

Fixing LED strip lights

Road Traffic Signs

Dot matrix signs

Frame bonding for digital signs



ORABOND™

**High Performance** Adhesive Tapes

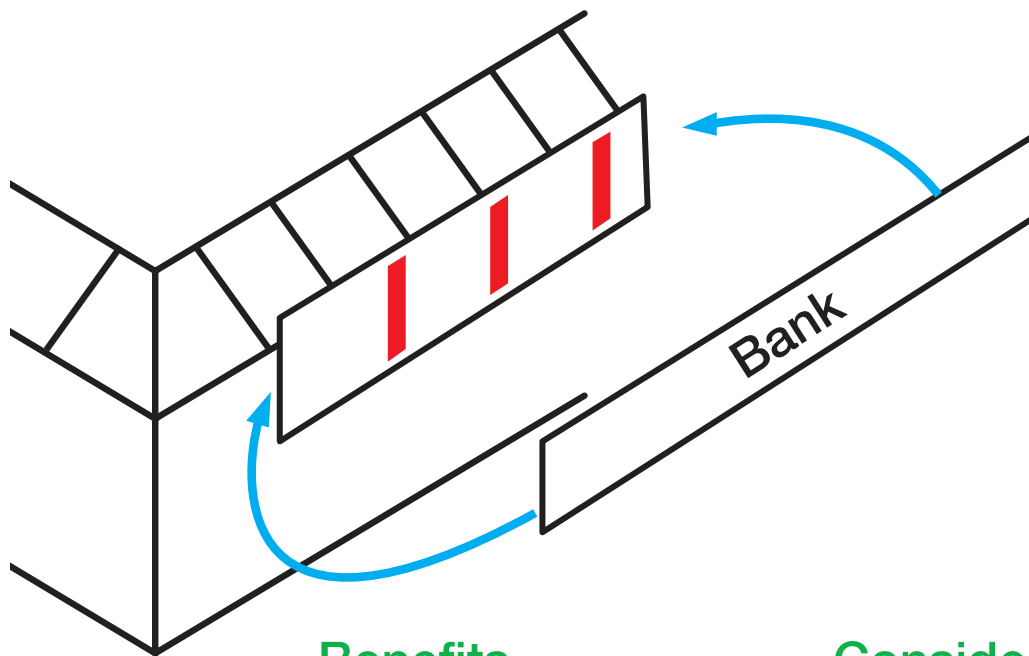
**Excellent adhesion** to high and low energy surfaces

**High Peel** and **Shear Strength**

**Excellent resistance** to UV light, solvents and plasticizers.



# Fascia



## Benefits

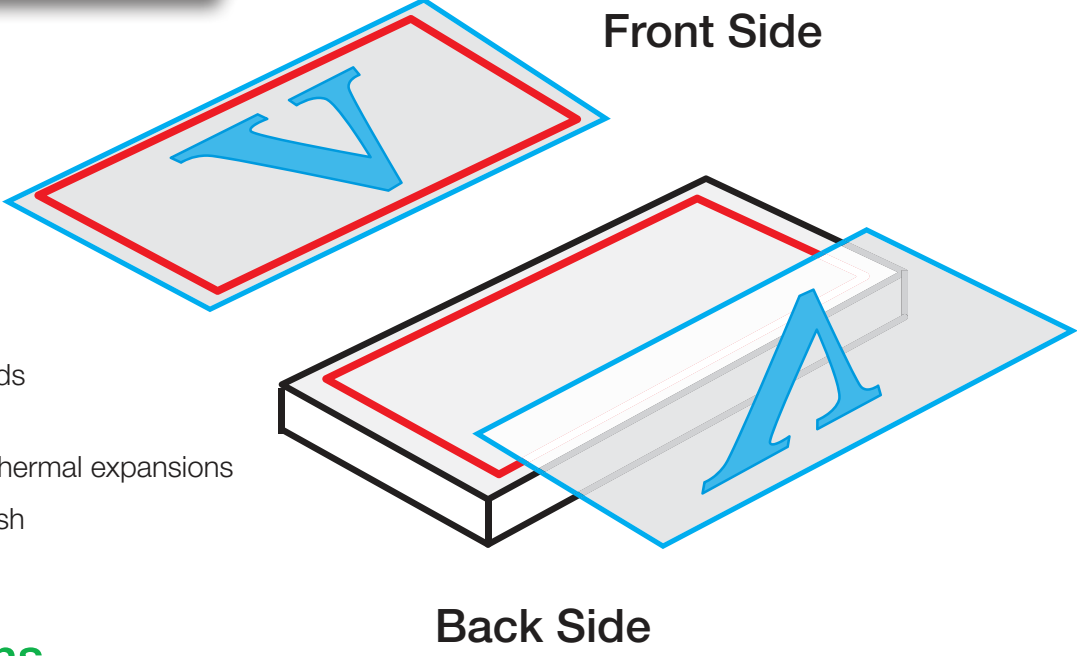
- Easy to apply without any mechanical attachment systems
- Enhanced aesthetics
- High performance of UHB tapes increases durability of sign

## Considerations

- Durability and choice of materials will determine the best bonding option.



# Light box



## Benefits

- Tape seals and bonds in one operation
- Allows for different thermal expansions
- Clean, attractive finish

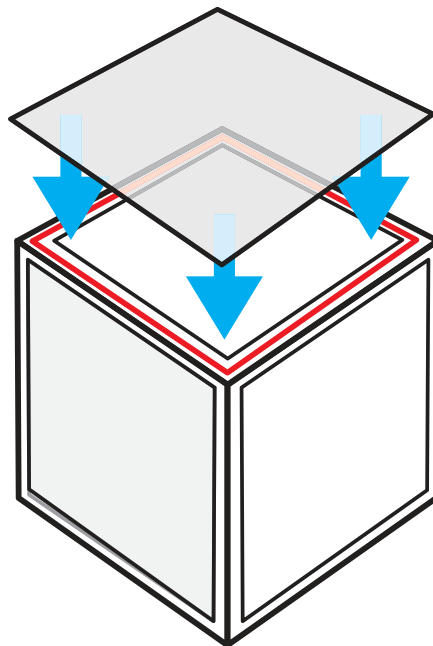
## Considerations

- Heat resistance required from light source
- Clarity of bonding products required when transparent materials are used
- External applications usually demand a water-tight seal
- Bonding to different materials, eg. aluminum, polycarbonate



## Box signs

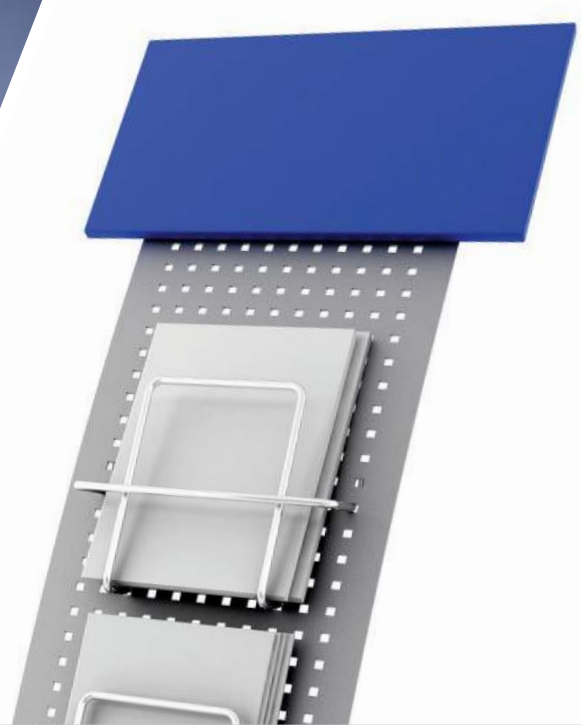
Aluminum Sheet bonded  
to box frame.  
Panels bonded to frame



### Benefits

- Flush, clean surfaces
- Improved cost saving as a tape enables use of thinner, lighter materials.
- Speed and simplicity of assembly (critical for modular sign construction.)

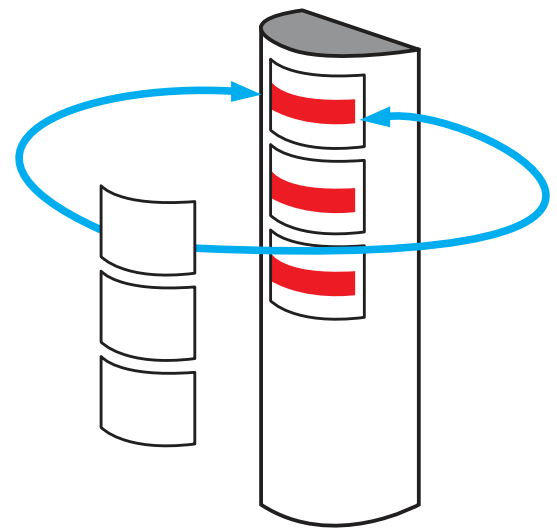
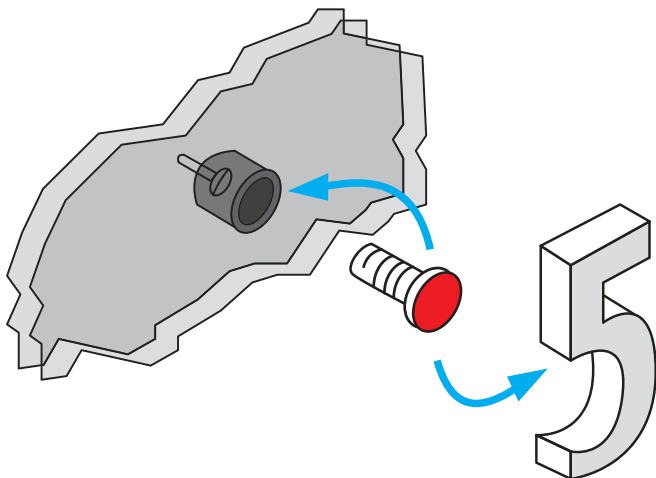




# Mounted Letters & Obelisk

## Benefits



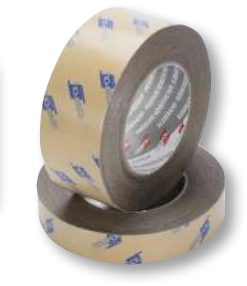
- No deterioration of sign face; improved appearance
- Allows for expansion and contraction of sign panel
- Bonds and seals in one step



## Benefits

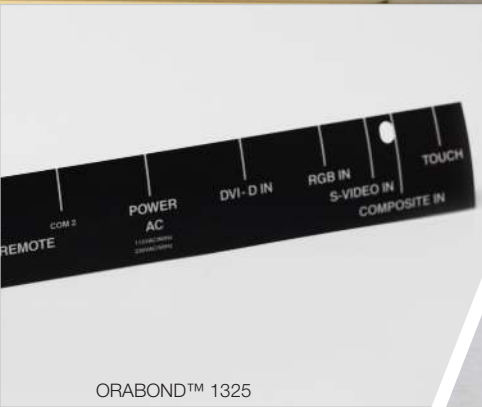
- Ensures flush vandal-resistant finish
- Invisible fixing and minimal surface damage
- Structural strength achievable on small areas

# ORABOND™ Transfer Tapes

	1375	1377	1325	1327	1328
					
<b>Alternative to</b>	3M 467MP	3M 468MP	3M 9471LE	3M 9453LE	3M 9472LE
<b>Application Areas</b>	Ideally suited for – <ul style="list-style-type: none"> <li>• Metal &amp; plastic nameplates</li> <li>• Fascia panels for electronics</li> <li>• Sign &amp; Display industry</li> </ul>		Ideally suited for materials that require an extremely high shear & temperature resistance. (All films.) For adhesion to rough and slightly structured or stamped surfaces. (ORABOND™ 1327 & 1328 only.)		
<b>Key Property</b>	Excellent peel and shear strength  Extreme resistance to UV light, solvents, and plasticizers  170°C/338°F long-term temperature resistance		Excellent peel and shear strength  Extreme resistance to UV light, chemicals, solvents, and humidity  Extremely durable on metal, varnish and high energy plastic surfaces  Very durable on low-energy plastic surfaces		
<b>Adhesive</b>	A7 Pure Acrylate		AM12 Modified Solvent Acrylate		
<b>Carrier</b>	Unsupported transfer				
<b>Liner</b>	Moisture stable PE-coated paper, brown with Blue ORAFOL® imprint		Siliconised PE-coated paper (both sides), brown with Blue ORAFOL® imprint		
<b>Thickness</b>	57 microns 2.25-mil	120 microns 4.75-mil	57 microns 2.25-mil	89 microns 3.5-mil	119 microns 4.7-mil
<b>Roll Size &amp; Rolls/Case</b>	305 mm x 50 m (12" x 55 yd) 610 mm x 50 m (24" x 55 yd) 1220 mm x 50 m (48" x 55 yd) 25 mm x 50 m (1" x 55 yd) 38 mm x 50 m (1½" x 55 yd) 50 mm x 50 m (2" x 55 yd)	4 1 1 60 36 30	305 mm x 50 m (12" x 55 yd) 610 mm x 50 m (24" x 55 yd) 1220 mm x 50 m (48" x 55 yd)		1 1 1
	610 mm x 914 mm (24" x 36")	100 sheets/ream	ORABOND™ 1327 is only available in 1220mm/48" roll width x 50m/55 yd. roll length.		



ORABOND™ 1375



ORABOND™ 1325



ORABOND™ 1327



ORABOND™ 1328

ORABOND™ 1325, 1327 & 1328 – Ideal for foams and materials that require a **Very High Adhesive Strength**.

# Strong bonding solutions

and high performance – *every time!*

ORAFOL's *best selling*



## Double-sided Adhesive Tapes

### AM2– Modified Solvent Acrylic Adhesive

Easy to Identify Color Coded Liners

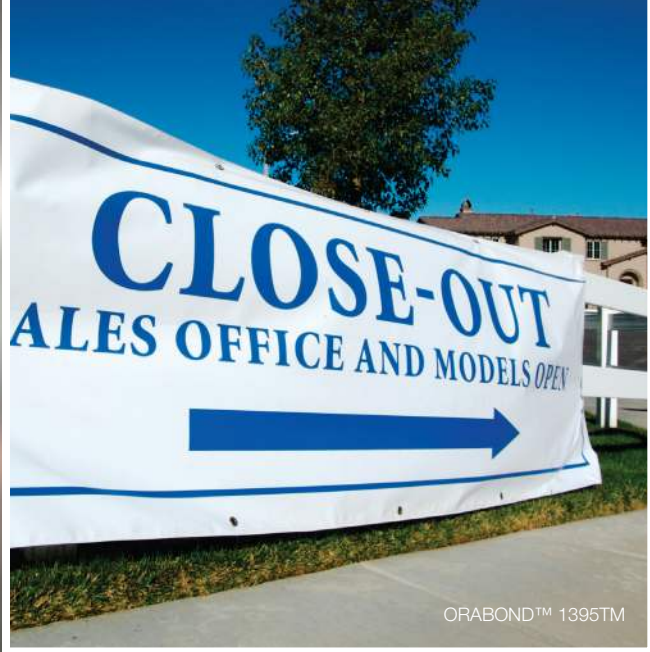
Strong Adhesion

Superior High Tack

Bonds Efficiently and Aggressively to most surfaces –

Perfect for Low-energy Surfaces

High Temperature and Shear Resistance

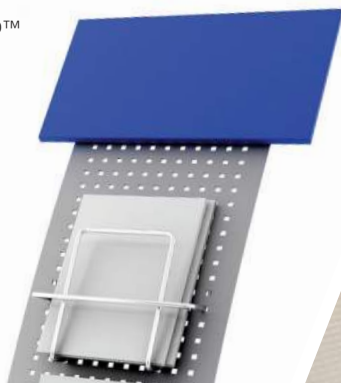


ORABOND™ 1395TM



# ORABOND™ 1397TM

ORABOND™ 1392TM






ORABOND™ 1397PP

## All Natural Beef At Its Best.






ORABOND™ 1399TM

# ORABOND™ AM2

	1392TM		1395TM		1397PP	
						
<b>Alternative to</b>	Tesa 4970, 3M 9087, Lohmann 370		Nitto 5011, 3M 9098, Lohmann 3720		Tesa 4965, 3M 9088FL, Lohmann 376F/377F	
<b>Application Areas</b>	Car and truck mirrors in plastic housing		POP displays, outdoor signs, banner splicing, etc.		POP displays, outdoor signs, banners, APET, fluted PP board, Falcon foam, Lexan, high impact Styrene, etc. which have to be very stress-resistant	
<b>Key Property</b>	High peel and shear strength for opaque applications		High-tack and medium-shear strength		High peel and shear strength	
	Extreme resistance to UV light, high temperature, chemicals, solvents, humidity, and plasticizer				Extreme resistance to UV light, temperature, chemicals, solvents, and humidity	
	70°C/158°F long-term temperature resistance		160°C/320°F long-term temperature resistance		160°C/320°F long-term temperature resistance	
<b>Adhesive</b>	AM2 Modified Solvent Acrylate					
<b>Carrier</b>	38 micron   1.5-mil hard white PVC		12 micron   0.5-mil Clear PET			
<b>Liner</b>	55#   3.0-mil white paper with Blue ORAFOL® imprint				80 micron 3.15-mil red polypropylene film	
<b>Thickness</b>	260 microns   10.25-mil		130 microns   5-mil		210 microns   8.25-mil	
<b>Roll Size &amp; Rolls/Case</b>	12 mm x 50 m (½" x 55 yd)	80	12 mm x 33 m (½" x 36 yd)	120	12 mm x 50 m (½" x 55 yd)	120
	19 mm x 50 m (¾" x 55 yd)	52	19 mm x 33 m (¾" x 36 yd)	78	19 mm x 50 m (¾" x 55 yd)	78
	25 mm x 50 m (1" x 55 yd)	40	25 mm x 33 m (1" x 36 yd)	60	25 mm x 50 m (1" x 55 yd)	60
	38 mm x 50 m (1½" x 55 yd)	24	38 mm x 33 m (1½" x 36 yd)	36	38 mm x 50 m (1½" x 55 yd)	36
	50 mm x 50 m (2" x 55 yd)	20	50 mm x 33 m (2" x 36 yd)	30	50 mm x 50 m (2" x 55 yd)	30
	1370 mm x 50 m (54" x 55 yd)	1			Also available in 1370mm/54" roll width.	

# Double-Sided Adhesive Tapes

1397TM		1399TM		1812TM	
					
Tesa 4965, 3M 9088FL, Lohmann 376F/377F		3M 9086, Lohmann 3702, Tesa 4959		Tesa 4952, 3M 9546, Lohmann 5011, Scapa 5464, St. Gobain V1600	
POP displays, outdoor signs, banners, APET, fluted PP board, Falcon foam, Lexan, high impact Styrene, etc. which have to be very stress-resistant		POP displays, outdoor signs, splicing on difficult boards and banners, etc.		Bonding to rough or dissimilar surfaces, exhibition mounting, mirror mounting, outdoor signs, etc.	
High peel and shear strength (for opaque applications-1399TM)				Excellent resistance to UV light, solvents, and plasticizer	
Extreme resistance to UV light, temperature, chemicals, solvents, and humidity				High peel and shear strength on difficult plastics	
Long-term temperature resistance		140°C/284°F long-term temperature resistance		Long-term temperature resistance 100°C/212°F	
AM2 Modified Solvent Acrylate					
12 micron   0.5-mil Clear PET		1.5-mil tissue		1 mm   39.5-mil white PE Foam	
55#   3.0-mil white paper with Blue ORAFOL® imprint					
210 microns   8.25-mil		190 microns   7.5-mil		1.1 microns   43.5 mil	
12 mm x 50 m (½" x 55 yd)		120		12 mm x 50 m (½" x 55 yd)	
19 mm x 50 m (¾" x 55 yd)		78		19 mm x 50 m (¾" x 55 yd)	
25 mm x 50 m (1" x 55 yd)		60		25 mm x 50 m (1" x 55 yd)	
38 mm x 50 m (1½" x 55 yd)		36		38 mm x 50 m (1½" x 55 yd)	
50 mm x 50 m (2" x 55 yd)		30		50 mm x 50 m (2" x 55 yd)	
ORABOND™ 1397TM is also available in 1370mm/54" roll width.					

LEVEL **3** - DEPART

LEVEL **2** - PUBLIC

LEVEL **1** - PARKING

LEVEL **G** - ARRIVAL

GREETE

&

ORABOND™ 1852

CHECK IN FOR



# Specialty Tapes

Perfect for **Window Applications** when a ***permanent bond*** is needed on the graphic side and a ***removable bond*** is need on the window side.

**Clean removability** from a variety of surfaces, even after an extended period of time

No damaged surfaces or messy cleanup!

# ORABOND™ Specialty Tapes

	1331TM		1852	
				
<b>Alternative to</b>	3M 776, Tesa 4917		3M 4658, Essentra Remo One, Tesa 65605	
<b>Application Areas</b>	Displays, exhibition boards and posters, temporary fixing, etc. with the ability to remove cleanly			
<b>Key Property</b>	<b>Covered/Removable Side –</b> Easy, clean removability from a variety of surfaces			
	<b>Open/Permanent Side –</b> Strong bonding characteristics to many surfaces			
	Good resistance to temperature (120°C/248°F) and moisture			
<b>Adhesive</b>	AM1/AM5 Modified Solvent Acrylic		AM2/AM6 Modified Solvent Acrylic	
<b>Carrier</b>	12 micron   0.5-mil Clear PET		1.0 mm   Closed cell PE Foam with interlayer polyester film	
<b>Liner</b>	90g white paper with Blue ORAFOL® imprint		90g white paper	
<b>Thickness</b>	100 microns   4-mil		1.2 microns   47.5-mil	
<b>Roll Size &amp; Rolls/Case</b>	12 mm x 50 m (½" x 55 yd)	120	12 mm x 50 m (½" x 55 yd)	20
	19 mm x 50 m (¾" x 55 yd)	78	19 mm x 50 m (¾" x 55 yd)	13
	25 mm x 50 m (1" x 55 yd)	60	25 mm x 50 m (1" x 55 yd)	10
	38 mm x 50 m (1½" x 55 yd)	52	38 mm x 50 m (1½" x 55 yd)	6
	50 mm x 50 m (2" x 55 yd)	30	50 mm x 50 m (2" x 55 yd)	5



ORABOND™ 1331TM



Great for Point of Sale Applications when a **Removable Tape** is *needed*.

# DEPARTURES

*Departures*

Departing To	Flight	Time	Status	Terminal	Gate
London	BA 286	10:55A	On Time	A	31R
Amsterdam	KL 640	8:50A	On Time	C	132
Frankfurt	LH 2541	8:55A	On Time	A	24a
Paris	AF 1104	8:30A	On Time	C	71
Brussels	SN 3035	8:30A	On Time	C	133
Geneva	GS 3402	10:45A	On Time	C	120
Madrid	IB 3540	8:10A	On Time	C	134

ORABOND™ 1810



ORABOND™ 1812™



ORABOND™ 1831




## Double-Sided Adhesive Tapes with Foam Carriers

**High Performance** adhesive tapes used to bond *rough* or *dissimilar surfaces*.

**Excellent resistance** to UV light, solvents and plasticizers.

Excellent for mirror mounting and hanging of indoor signs.

# ORABOND™ Double-Sided

	1810	1812TM
	 	
<b>Alternative to</b>	3M 9539, Lohmann 918	Tesa 4952, 3M 9546, Lohmann 5011, Scapa 5464, St. Gobain V1600
<b>Application Areas</b>	Bonding to rough or dissimilar surfaces, exhibition mounting, mirror mounting, outdoor signs, etc.	
<b>Key Property</b>	Excellent resistance to UV light, solvents, and plasticizer	
	Maximum peel & shear strength on glass and metal	High peel and shear strength on difficult plastics
	Long-term temperature resistance 95°C/203°F	Long-term temperature resistance 100°C/212°F
<b>Adhesive</b>	A1 Pure Solvent Acrylate	AM2 Modified Solvent Acrylate
<b>Carrier</b>	1 mm   39.5-mil white PE Foam	
<b>Liner</b>	86#   5.5-mil blue PE paper	55#   3.0-mil white paper with Blue ORAFOL® imprint
<b>Thickness</b>	1.1 microns   43.5-mil	
<b>Roll Size &amp; Rolls/Case</b>	12 mm x 50 m (½" x 55 yd) 19 mm x 50 m (¾" x 55 yd) 25 mm x 50 m (1" x 55 yd) 38 mm x 50 m (1½" x 55 yd) 50 mm x 50 m (2" x 55 yd)	20 13 10 6 5

# Adhesive Tapes with Foam Carriers

1831	1852
	
<p>3M 9536, Lohmann 5008, Scapa 5474, St. Gobain V1500</p>	<p>3M 4658, Essentra Remo One, Tesa 65605</p>
<p>Bonding to rough or dissimilar surfaces, exhibition mounting, mirror mounting, indoor signs, etc.</p>	<p>Displays, exhibition boards and posters, temporary fixing, etc. with the ability to remove cleanly</p>
<p>Very high initial-tack and good shear strength Excellent adhesion to a variety of plastics</p>	<p><b>Covered/Removable Side –</b> Easy, clean removability from a variety of surfaces</p>
	<p><b>Open/Permanent Side –</b> Strong bonding characteristics to many surfaces</p>
	<p>Good resistance to temperature (120°C/248°F) and moisture</p>
<p>RL2 Synthetic Rubber</p>	<p>AM2/AM6 Modified Solvent Acrylic</p>
<p>1 mm   39.5-mil, white PE Foam</p>	<p>1.0 mm   Closed cell PE Foam with interlayer polyester film</p>
<p>55#   3.0-mil white paper</p>	<p>90g white paper</p>
<p>1.1 microns   43.5-mil</p>	<p>1.2 microns   47.5-mil</p>
<p>12 mm x 50 m (½" x 55 yd) 19 mm x 50 m (¾" x 55 yd) 25 mm x 50 m (1" x 55 yd) 38 mm x 50 m (1½" x 55 yd) 50 mm x 50 m (2" x 55 yd)</p>	<p>20 13 10 6 5</p>

# ORAFOL® Adhesives

Name	Type	Properties & Features
A1	pure solvent acrylic	High-shear adhesive with excellent resistance to high temperatures, solvents, humidity and outdoor exposure.
A7	pure acrylic	High-shear adhesive with excellent high-tack, excellent adhesion on all high-energy surfaces.
AM1	modified solvent acrylic	Medium-shear adhesive with excellent adhesion to most foams where plasticizers and other impregnates are used.
AM2	modified solvent acrylic	High-shear, high-tack adhesive with excellent balance of properties for use in high performance bonding applications. This product features good adhesion to low-energy plastic surfaces.
AM5	modified solvent acrylic	Ultra removable adhesive with excellent no-build adhesion to most surfaces.
AM12	modified solvent acrylic	Excellent high-tack and outstanding adhesion on high-energy and especially on low-energy surfaces.
RL2	synthetic rubber	High shear solvent rubber with good adhesion to low-energy plastic surfaces.

# ORABOND™ Carpet Tape

1362



<b>Alternative to</b>	Lohmann 4313, Tesa 4964		
<b>Application Areas</b>	Good bonding to carpet with clean removability from exhibition floors.		
<b>Adhesive</b>	Modified dispersion acrylate	<b>Carrier</b>	Rayon, White
<b>Liner</b>	55# white paper	<b>Thickness</b>	292 microns   11.5-mil
<b>Roll Size &amp; Rolls/Case</b>	12 mm x 50 m (½" x 55 yd) 80 19 mm x 50 m (¾" x 55 yd) 52 25 mm x 50 m (1" x 55 yd) 40	38 mm x 50 m (1½" x 55 yd) 24 50 mm x 50 m (2" x 55 yd) 20	



# PRODUCT OVERVIEW

(All Sign & Display Tapes except ORABOND™ UHB tapes)

Substrate	Tape Carrier	PVC	PET	Tissue		Foam			Transfer		
		White	Clear	Off White		White			Clear		
Foam Sign Board (uncoatedPVC)	1392TM										
PET Sheets											
Paper Laminated Foam Board			1397TM								
Coated Foam Board	1392TM			1399TM		1810		1831			
Polypropylene Sheet											
PVC Sign Board							1812TM				
Polycarbonate Sheet									1375	1377	1328
Filled Polypropylene	1392TM										
Banner, Heavy											
Banner, Light											
Polystyrene Sheet						1810		1831	1375	1377	
Uncoated Cartonboard											
Uncoated Paper				1399TM	1358TM						
Corrugated Board											
Mirrors (glass sheet)											
Mirrors (acrylic sheet)						1810	1812TM	1831			

For more product information, please contact [tapes-americas@orafol.com](mailto:tapes-americas@orafol.com).

- ORABOND™ 1399 is very widely used in splicing of paper and carton boards in coating and printing applications.
- ORABOND™ 1397PP is very popular because the red film liner is widely seen as a measure of product performance (3M 9088FL and Tesa 4965 for example).



ORABOND™ 3598



ORABOND™ 3601



ORABOND™ 3599



ORABOND™ 3600



ORABOND™ 3597



## What makes UHB tapes bond so well?

**ORABOND™ UHB (Ultra High Bond) tapes** bond to a wide variety of surfaces.

The **viscoelastic properties (flow characteristics)** of the UHB tapes allow the adhesive to flow into the microscopic surface of materials. The adhesive bond is very strong when there is good 'wet out', maximum adhesive contact under pressure with the substrates to be bonded.

**Abrading the surface** to be bonded actually improves the strength of the bond.






This creates a rough surface for a greater adhesive bonding area.

The **elastic characteristics** of the foam give it very good internal cohesive strength to support loads in both static and dynamic shear. It also gives the foam very good peel adhesion strength.

The tape is soft and very flexible which means it has **great conformability**.

The tape will **radius well** (go around curves).

# ORABOND™ UHB Tapes

	UHB04064G (previously UHB3594)	UHB03064W (previously UHB3595)	UHB03025T (previously UHB3596)	UHB03050T (previously UHB3597)	UHB03080G (previously UHB3598)
					
<b>Alternative to</b>	3M RP25	3M 4930	3M 9473	3M 4905	3M 5314
<b>Application Areas</b>	Ideally suited for a wide range of applications in – <ul style="list-style-type: none"> <li>• Automotive</li> <li>• Electronic</li> <li>• Sign &amp; Display industry</li> <li>• Solar</li> </ul>	Ideally suited for structural and general bonding including – <ul style="list-style-type: none"> <li>• Body panels</li> <li>• Emblems</li> <li>• Illuminated displays</li> <li>• Signage</li> </ul>			
<b>Key Property</b>	High Performance Bonding & Mounting High shear holding power and temperature resistance	High Performance Bonding & Mounting High shear holding power and temperature resistance	High Performance Bonding & Mounting High shear holding power and temperature resistance Clear adhesive improves bondline aesthetics when joining transparent materials	High Performance Bonding & Mounting High shear holding power and temperature resistance	High Performance Bonding & Mounting High shear holding power and temperature resistance Elastomeric nature of the foamed adhesive makes it ideal for applications requiring conformability
<b>Adhesive</b>	Foamed Acrylic, Grey	Foamed Acrylic, White	Foamed Acrylic, Clear		Foamed Acrylic, Grey
<b>Liner</b>	5-mil release coated polyethylene, Red with white ORAFOL® imprint				
<b>Thickness</b>	640 microns 25-mil	249 microns 10-mil	500 microns 20-mil	800 microns 31-mil	
<b>Roll Size &amp; Rolls/Case</b>	12 mm x 33 m (½" x 36 yd)		24		
	19 mm x 33 m (¾" x 36 yd)		16		
	25 mm x 33 m (1" x 36 yd)		12		

# with an Ultra High Bond

UHB03100T (previously UHB3599)		UHB03110G (previously UHB3600)		UHB03110W (previously UHB3601)		UHB04200G (previously UHB3602)		UHB04150G (previously UHB3603)	
									
3M 4910		3M 4941/5952		3M 4950		3M 4991		3M 4956	
<p>Ideally suited for mounting, bonding and sealing of –</p> <ul style="list-style-type: none"> <li>• Glass displays</li> <li>• Illuminated displays</li> <li>• Laminated safety glass</li> <li>• Signage</li> <li>• Shower screens</li> </ul>		<p>Ideally suited for structural and general bonding including–</p> <ul style="list-style-type: none"> <li>• Body panels</li> <li>• Emblems</li> <li>• Illuminated displays</li> <li>• Signage</li> <li>• Window glazing bars (3601 only)</li> </ul>							
<p>High Performance Bonding &amp; Mounting</p> <p>Ideal for applications where thermal expansion differences are a concern</p> <p>Clear adhesive improves bondline aesthetics when joining transparent materials</p>		<p>High Performance Bonding &amp; Mounting</p> <p>Ideal for applications where thermal expansion differences are a concern</p>			<p>High Performance Bonding &amp; Mounting</p> <p>High shear holding power and temperature resistance</p> <p>Ideal for applications where thermal expansion differences are a concern</p>				
Foamed Acrylic, Clear		Foamed Acrylic, Grey		Foamed Acrylic, White		Foamed Acrylic, Grey			
5-mil release coated polyethylene, Red with white ORAFOL® imprint									
1,000 microns 40-mil		1,100 microns 44-mil			2,000 microns 78-mil			1,500 microns 60-mil	
		12 mm x 33 m (½" x 36 yd)		24		13 mm x 16.5 m (½" x 18 yd)		23	
		19 mm x 33 m (¾" x 36 yd)		16		15 mm x 16.5 m (¾" x 18 yd)		20	
		25 mm x 33 m (1" x 36 yd)		12		25 mm x 16.5 m (1" x 18 yd)		12	
						13 mm x 25 m (½" x 27 yd)		23	
						15 mm x 25 m (¾" x 27 yd)		20	
						25 mm x 25 m (1" x 27 yd)		12	

# ORABOND™ UHB Tapes

## Adhesion Guidelines for Substrates

Substrate Material		Adhesion	Primer Usage
Aluminum Anodized Aluminum Copper Lead	Painted Metal Stainless Steel Tin Zinc	Excellent	Not Necessary
Alkyd Enamel Epoxy Paint Kapton Nylon	Polychloroprene Polyester Polyurethane	Very Good	May Need Primer
ABS (Acrylonitrile-Butadiene-Styrene) Acrylic Polycarbonate	Polystyrene PVA (Polyvinyl Acetate) PVC (Polyvinyl Chloride)	Good	Recommended
EPDM (Ethylene Propylene Diene Monomer-Rubber) EVA (Ethylene Vinyl Acetate)	Polyethylene Polypropylene Tedlar	Good	Required
Silicone	Teflon	Poor	

**Attention**

Surfaces to which the material will be applied must be cleaned thoroughly of dust, grease or any contaminants. It is the end users responsibility to verify painted surfaces are completely cured prior to adhesive tape application.

**Preparation**

Cleaned with an appropriate solvent; preferably IPA no more than 15 minutes prior to bonding.

Typically, full bond is reached after 72 hours.  
(50% at 20 minutes, 90% at 24 hours.)



**ORABOND™ UHB**

**The Tape**

that replaces the need for

**Mechanical Fasteners  
& Liquid Adhesives.**

Adhesive Tape Systems  
Engineered to Perform Better™



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