NORBOND®

A7200(Clear), A7300 (Gray), A7400 (White) and A7500 (Black)

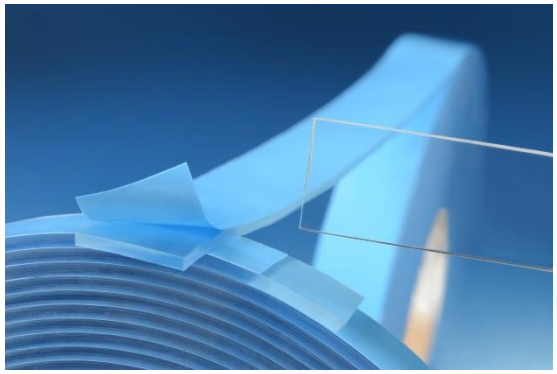
Premium Acrylic Foam Tapes

SAINT-GOBAIN

NORBOND® A7200 Clear Acrylic "Core" Tape

The Basics:

- Monolayer product (No additional adhesive coatings)



Log Size				
Standard Thickness	Width		Length	
mm	mm	inche	Meter	Yard
0.5	800	31.5	33	36
0.7	800	31.5	33	36
1	800	31.5	33	36
1.5	800	31.5	20	22
2	800	31.5	15	16
3	800	31.5	10	11

- Stock available locally
- Standard in plastic core

Key Benefits of NORBOND® A7200 Clear

- NORBOND®: “Providing Durable, Long Lasting Security”
- Outstanding viscoelastic and adhesion properties
- Satisfies special visual and design requirements unique when bonding glass or clear surfaces (virtually invisible)
- Exceeds 7 Days (10,000 minutes with 1Kg weight) for shear strength even at elevated temperatures
- OPTIONS: Highlights our flexibility to offer tinted adhesives and liner varieties (with graphic printing) all subject to MOQ’s…

How does Data compare…

Test	NORBOND A7200	Competitor #1	Competitor # 2	Competitor # 3	Comment
Thickness (mm)	1.0	1.0	1.0	1.0	
90° Peel to Alum. N/cm (lb/in)	40 (23)	30 (17)	34 (19)	40 (23)	Compare Well
T-Block N/cm^2 (lb/in^2)	65 (94)	71 (103)	74 (107)	80 (116)	Compare well
Static Shear	Pass/ Exceeds 7 Days 212^0 F (100^0 C) weight = 1.0kg	158^0 F (70^0 C) weight = 1.0kg	158^0 F (70^0 C) weight = 0.75kg	73^0 F (23^0 C) weight =1kg	Best Performance
Temp Resistance	-30°F to 200°F (-35°C to 93°C)	31^0 F to 194^0 F (-35^0 C to 90^0 C)	-40^0 F to 248^0 F (-40^0 C to 120^0 C)	-31^0 F to 194^0 F (-35^0 C to 90^0 C)	Very Good Performance

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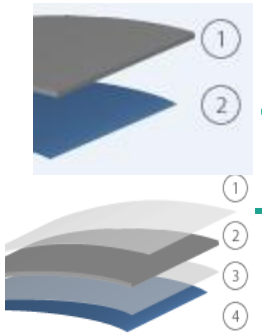
NORBOND® A7300 Gray Acrylic Foam Tape

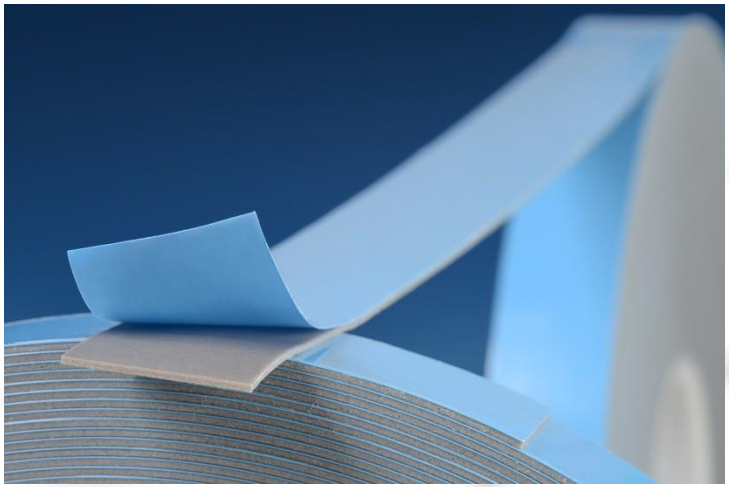


The Basics:

Monolayer: (0.5mm)

Multi-Layer (Adhesive 2 side)

Log Size				
Standard Thickness	Width		Length	
mm	mm	inche	Meter	Yard
0.5	800	31.5	33	36
0.8	800	31.5	33	36
1.1	800	31.5	33	36



- Stock available locally
- Standard in plastic core

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Key Benefits of NORBOND® A7300 Gray

- NORBOND®: “Providing Durable, Long Lasting Security”
- Outstanding viscoelastic and adhesion properties
- Exceeds 7 Days (10,000 minutes with 1Kg weight) for shear strength even at elevated temperatures
- OPTIONS: Highlights our flexibility liner varieties (with graphic printing) subject to MOQ’s…

How does Data compare…

Test	NORBOND A7300	Competitor #1	Competitor #2	Competitor #3	Comment
Thickness (mm)	1.1	1.1	1.1	1.1	
90° Peel to Alum. N/cm (lb/in)	57 (33)	45 (26)	47(27)	32 (18)	Best Performance
T-Block N/cm^2 (lb/in^2)	69 (100)	51(73)	75 (109)	62 (90)	Compare well
Static Shear	Pass/ Exceeds 7 Days 212^0 F (100^0 C) Weight = 1.0kg	Failed (Less than 7 Day @ 70^0 C (158^0 F)	158^0 F (70^0 C) weight = 1kg	158^0 F (70^0 C) weight = 1.0kg	Best Performance
Temp Resistance	-30°F to 200°F (-35°C to 93°C)	-31^0 F to 194^0 F (-35^0 C to 90^0 C)	194^0 F (90^0 C)	31^0 F to 194^0 F (-35^0 C to 90^0 C)	Very Good Performance

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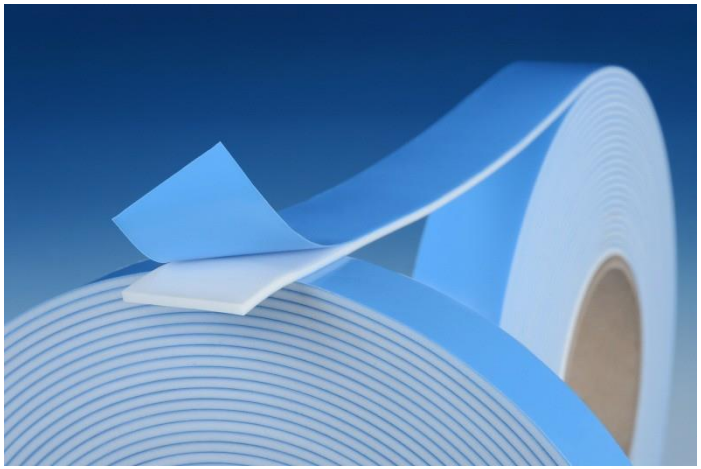
NORBOND® A7400: White Acrylic Foam Tape



The Basics:

Multi-Layer (Adhesive 2 sides)

Log Size				
Standard Thickness	Width		Length	
mm	mm	inche	Meter	Yard
0.6	800	31.5	33	36
1.1	800	31.5	30	33
2.0	800	31.5	15	16

- Stock available locally
- Standard in plastic core

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Key Benefits of NORBOND® A7400 White

- NORBOND®: “Providing Durable, Long Lasting Security”
- Outstanding viscoelastic and adhesion properties
- Exceeds 7 Days (10,000 minutes with 1Kg weight) for shear strength even at elevated temperatures
- OPTIONS: Highlights our flexibility liner varieties (with graphic printing) subject to MOQ’s…

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How does Data compare…

Test	NORBOND A7400	Competitor #1	Competitor #2	Competitor #3	Comment
Thickness (mm)	1.1	1.1	1.1	1.1	
90° Peel to Alum. N/cm (lb/in)	55 (32)	28 (16)	39 (22)	44 (25)	Best Performance
T-Block N/cm^2 (lb/in^2)	75 (110)	47 (68)	100 (145)	99 (144)	Compare well
Static Shear	Pass/ Exceeds 7 Days 212^0 F (100^0 C) Weight = 1.0kg	158^0 F (70^0 C) weight =.5kg	158^0 F (70^0 C) weight =.75kg	158^0 F (70^0 C) weight =.5kg	Best Performance
Temp Resistance	-30°F to 200°F (-35°C to 93°C)	-35°F to 200°F (-35°C to 93°C)	200^0 F (93^0 C)	194°F (90°C)	Very Good Performance

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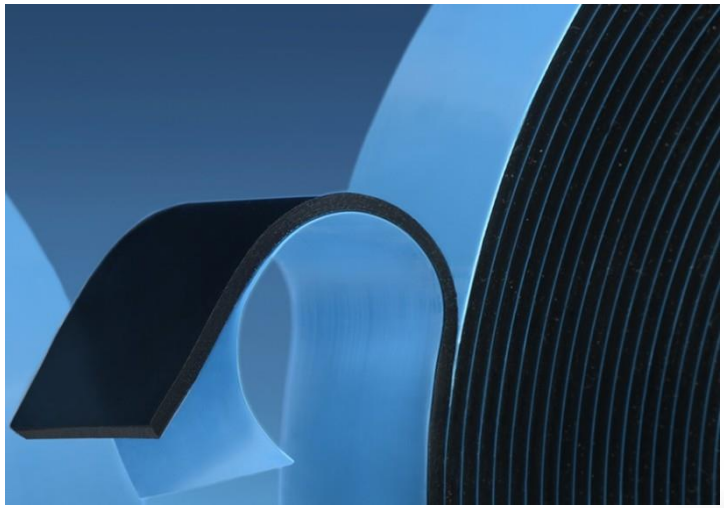
NORBOND® A7500: Dark Acrylic core Tape



The Basics:

- Monolayer

Log Size				
Standard Thickness	Width		Length	
mm	mm	inche	Meter	Yard
0.7	800	31.5	33	36
1.1	800	31.5	30	33
1.6	800	31.5	20	22

- Stock available locally
- Standard in plastic core

Key Benefits of NORBOND® A7500 Black

- NORBOND®: “Providing Durable, Long Lasting Security”
- Dark acrylic core tape designed “with a black edge” profile
- Designed for ideal bonding where a dark aesthetic is required
- Outstanding viscoelastic and adhesion properties
- OPTIONS: Highlights our flexibility liner varieties (with graphic printing) subject to MOQ’s…

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How does Data compare…

Test	NORBOND A7500	Competitor #1 -	Competitor #2	Competitor # 3	Comment
Thickness (mm)	1.1	1.0	1.0	1.0	
90° Peel to Alum. N/cm (lb/in)	48 (27)	64 (36)	36 (21)	32 (18)	Compare well
T-Block N/cm^2 (lb/in^2)	66 (96)	74 (107)	77 (112)	52 (75)	Compare well
Temp Resistance	-30°F to 200°F (-35°C to 93°C)	200°F (93°C)	200°F (93°C)	248°F (120°C)	Compare well

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Portfolio Performance Summary

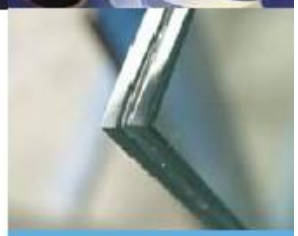
NORBOND®	Thickness	90° Peel to Aluminum N/cm (lb/in)	T-Block N/cm^2 (lb/in^2)	Dynamic Shear N/cm^2 (lb/in^2)	Static Shear	Temp Resistance
A7200 (Clear)	1.0	40 (23)	65 (94)	22 (32)	Pass and exceeds (1000g/212°F (100°C)	-30°F to 200°F (-35°C to 93°C)
A7500 (Black)	1.1	48 (27)	66 (96)	34 (49)	Pass (500g/158°F (70°C)	-30°F to 200°F (-35°C to 93°C)
A7300 (Gray)	1.1	57(33)	69 (100)	33 (48)	Pass and exceeds (1000g/212°F (100°C)	-30°F to 200°F (-35°C to 93°C)
A7400 (White)	1.1	55 (32)	75 (110)	51 (74)	Pass (1000g/212°F (100°C)	30°F to 200°F (-35°C to 93°C)

Distinct Advantage – A7200 Transparency

Distinct Advantage

NORBOND®

A7200 Series



Transparency

Transparent materials are essential in modern architectural and design disciplines. Glass and plastics are used in numerous places within commercial and residential buildings. Examples include roofs, windows, signage, visual communication, wall partitions, skylights, furniture and shower enclosures.

Transparency is very important for many of these applications. Transparency refers to the optical clarity of an object or material. The overall transparency of any material is a combination of its chromatic or geometric attributes, such as light transmission, yellow index and haze.

Light transmission is the fraction of incident light (electromagnetic radiation) at a specified wavelength that passes through a sample.

Yellow index is the change in color of a test sample from clear or white toward yellow. This test is most commonly used to evaluate color changes in a material caused by real or simulated outdoor exposure.

Haze is the cloudiness of a product that is caused by scattering of light through a transparent material. Haze is an attribute that can be quantified and then used to assess the level of transparency.

NORBOND® A7200 acrylic tapes were designed to reach the highest level of transparency, becoming virtually invisible when bonding to glass or clear surfaces.

To evaluate the level of transparency of NORBOND A7200 acrylic tapes compared to other tapes in the market, light transmission, yellow index and haze were tested.

NORBOND® A7200 Series Acrylic Tapes

- Provide durable, long-lasting security
- Virtually invisible after application
- Satisfy special visual and design requirements when bonding to glass or clear surfaces
- Great conformability and stretching

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Distinct Advantage

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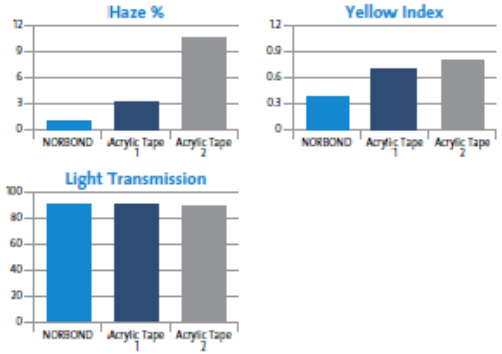
A7200 Series

NORBOND® 7200 vs. Acrylic Tapes



Test Methodology

- All measurements performed at standard laboratory conditions: 23 ± 2°C and 50 ± 5% RH
- Transparency test was performed using a Hunter Lab Ultra Scan Pro to measure light transmission, color and haze
- The following test methods were applied to measure transparency:
  - Y Light Transmission
  - YI E313 (D65/10) Yellow Index
  - Haze % D65/10

The Results

- NORBOND A7200 has best-in-class haze performance (extremely low 1%), yellow index (extremely low 0.4), and light transmission (extremely high 92.7).
- NORBOND A7200 is the top performer when all three criteria (light transmission, yellow index and haze) are considered.

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SPE-5273-0215-SGCS

Distinct Advantage – A7400 Static Shear

Distinct Advantage

NORBOND® A7400 Series

Static Shear Performance

Static shear performance is an industry term that defines the holding power, or bond strength, of a bonding tape. It is a measurement of the tape's ability to maintain adhesion under a constant load applied parallel to the surface of the tape. Two extreme application examples are shown in the photos: panel bonding on transportation vehicles and on exterior facades of building structures.

NORBOND A7400 series tapes are high-performance acrylic foam bonding tapes designed specifically for extreme static shear bonding strength. The combination of the viscoelastic acrylic foam core and the high-performance adhesive coating results in excellent bonding performance.

NORBOND A7400 series is an excellent choice for systems and applications where a high wind loading is expected. The tape will maintain good contact with the substrate to minimize deflection while eliminating the stress points common with mechanical attachment.

For vertically mounted signs or panels, the key property to consider is static shear (load bearing). NORBOND® A7400 series was tested for static shear as compared to competitive acrylic tapes found in the market. Results show extremely strong, best-in-class performance.

NORBOND® A7400 Series Acrylic Tapes

- Provide durable, long-lasting security
- Exceed 7 days (10,000 minutes with 1 kg weight) for shear strength even at elevated temperatures
- Outstanding viscoelastic and adhesion properties
- Shock and stress absorption

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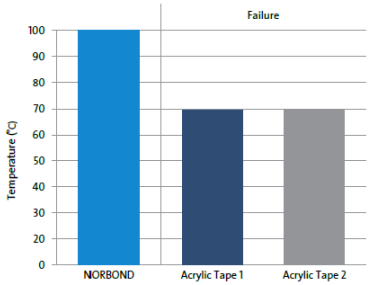
Distinct Advantage

NORBOND® A7400 Series

NORBOND® A7400 vs. Competitive Acrylic Tapes



Test Methodology

- Based on ASTM D3654
- 1-in.² samples were tested on stainless steel panel
- Dwell time 24 h at 23°C – 55% RH
- The weight was fixed at 1 kg and lowered to min. 0.5 kg if failure occurs
- Temperature was elevated
- The test was stopped after 10,000 minutes or earlier if failure appears

The Results

- NORBOND A7400 tape shows best-in-class performance, maintaining its bond for the entire 10,000 minutes, and at elevated 100°C temperature.
- Acrylic tapes 1 and 2 failed at 70°C.

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SPE-5273-0315-SGCS

Liners

Type	NorBond®	Liner Thickness	Standard Liner	Release Level
Standard	A7200/A7300/A7400/ A7500	190µ	Blue LDPE	Medium
Future Option	A7200/A7300	100µ	Blue PP	Easy

Other Options*	Colors*	Thickness
LDPE	Clear, Green, Red	120 or 200 micron
Multi-Layer PE	Blue, Red, Orange	120 micron
Si Paper	Brown or White	100 micron
Si MDPE	Blue	70 micron
Polyester	Clear	50 micron

*Requires certain MOQ and premium price for non standard liner
*Requires make to order for non standard liner

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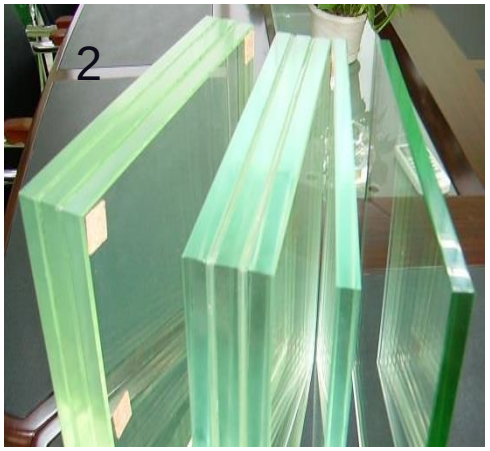
NORBOND® A7200 (Clear) Applications

1 - Glass furniture component bonding
2 - Security glass lamination
3 - Translucent signage
4 - Bath and shower hardware
5 - Visual communication
6- Polycarbonate bonding



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NORBOND® A7300 (Gray) Applications

1- Signage /display bonding

2 - Bus, truck and trailer body side panel bonding

3 - Bonding glass to a metal oven door

4 - Bonding door kick & seal plate

5 - Bonding munting bars to glass

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NORBOND® A7400 (White) Applications

1- Hinges, handles and control elements for appliances

2 - Mirror mounting

3 - Roof panel bonding on trucks cabs

4 - Side panels on bus, trucks and trailers

5 - Architectural signs

6 - Road signs

1

2

3,4

5

6

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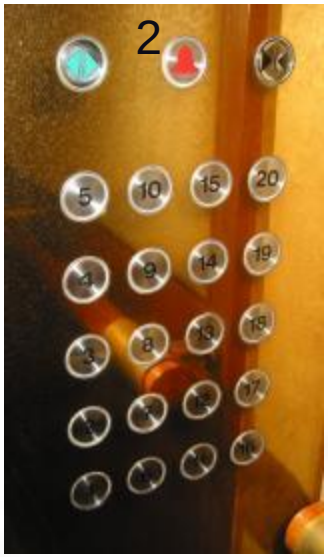
NORBOND® A7500 (Black) Applications

1- Window shade side panels

2 – Elevator panels

3 – Shelving / furniture

4 – Ceramic cook top bonding



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Market Segments/Applications

Industrial:

- Converters and Distributors

Habitat:

- Visual Sign
- Architectural Panels
- Interior bonding

Consumer:

- White goods

Automotive/Transportation

- Reflective bonding
- Body components: *Molding, emblems, sensors, mirrors, chrome trim, step inlay trim, many, many*
- Bus Panel and Truck Row Bows