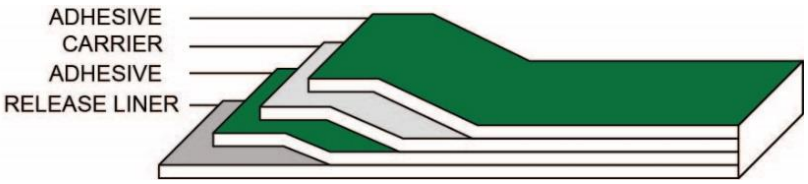
Product Information Sheet
ARclad® 8645-78

Adhesives Research®

ARclad® 8645-78 is a high performance gray foam tape with acrylic adhesive and a blue polypropylene liner.

PRODUCT APPLICATIONS

The typical use for this product is in the window industry for attaching muntin bars to the exterior glass of the window. This tape can also be used in applications where extruded acrylic foam tapes are overkill for the application, thus saving money while matching the needed performance. Other applications are found in the signage and display markets and transportation applications.



FEATURES AND BENEFITS

- Excellent bond strength to aluminum, glass, wood, polycarbonate & acrylic
- Excellent shear strength
- Good temperature resistance
- FGIA (formerly AAMA) 813-19 certified
- 10 year limited warranty for muntin applications
- Silane coupling agent is not required

Product Construction			
	Typical Values*		Description
Adhesive thickness	2.3 mil	58 µm	AS-181 acrylic adhesive
Foam thickness	42.0 mil	1067 µm	6# gray EVA foam
Adhesive thickness	2.3 mil	58 µm	AS-181 acrylic adhesive
Liner thickness	3.0 mil	76 µm	D/F, blue polypropylene release liner
Total thickness	46.6 mil	1184 µm	(Excluding liner)

*All stated values are nominal and should only be used as a guide for selection. They are not specifications.

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Technical Properties			
Attribute*	Typical Values*		Test Method*
Peel adhesion to Stainless Steel (both sides)	85 oz/inch	23.4 N/25mm	180 degrees, 12 ipm, 60 min. dwell
Static shear to Stainless Steel (both sides)	> 300 minutes		½" x ½", 500 grams
Liner release	70 g/2"		180 degrees, 300 ipm
Recommended storage of unconverted product	70°F ± 20°F 50% ± 20% RH	21°C ± 11°C 50% ± 20% RH	
Shelf life of unconverted product	Not to exceed one year from date of manufacture		

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Note: The information contained on this data sheet is based upon test results of limited quantities of this material and may be modified by Adhesives Research following additional production experience and evaluation. This data should not be used in preparing specifications. Products identified as developmental may be subject to modification by Adhesives Research, Inc.

APPLICATION AND STORAGE OF PRESSURE-SENSITIVE ADHESIVE TAPES

Pressure-sensitive adhesive tapes function as a mechanical product; however, the adhesive itself is a chemical composition that can be sensitive to environmental conditions. A purchaser of pressure-sensitive adhesive products should be aware of the shelf life of each product and not purchase more than it can use before the expiration date. Shipping and storage conditions affect shelf life. The optimum storage temperature is 70 °F (21 °C). Cool, dry storage is recommended.

For best results…

1) The surfaces you wish to bond should be clean and free of oil, moisture and dust. If the surface temperature is below 40°F, it may be difficult to achieve a proper bond.
2) Do not use a pressure-sensitive adhesive product where it will be exposed to temperatures lower or higher than those designated for each product. Heat can destroy the effectiveness of the bond and extreme cold can cause the adhesive to harden and not adhere properly.
3) When the tape is applied, use firm hand or lamination pressure to achieve contact between the adhesive and the surface to which it is applied. Hand rollers or nip rollers may be needed for certain products or applications.

Consult your AR sales representative if you need additional information.

THIS IS NOT AN OFFER

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DISCLAIMER OF WARRANTIES

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AR limits the purchaser's remedies in the event of a breach of any warranty. The purchaser's exclusive remedy and AR's obligations for a breach of any warranty shall be as set forth in the Sales Order Acknowledgment.

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