Product Information

ARclad® 8416 and 8516
High Performance Glazing Tapes

Adhesives Research®

PRODUCT DESCRIPTION

ARclad® 8416 and 8516 are the next generation of glazing tapes from Adhesives Research. Developed to enable window manufacturers to achieve higher glazing performance, the tapes combine a high performance acrylic adhesive with a strong yet pliable foam carrier, to achieve optimum performance in the test lab and in the field.

FEATURES

- High performance acrylic adhesive
- 1/16" black or white polyolefin foam
- 4 mil blue poly liner

BENEFITS

ARclad® 8416 and 8516 were developed to offer greater resistance to moisture, and an enhanced bond between the tape and glass interface. Whether the moisture comes as a result of manufacturing the product in a high RH environment (the Pacific Northwest, for example) or forced water in the testing process, this characteristic enables manufacturers to produce a higher performance unit. The custom-developed adhesive also offers additional heat resistance; and the flexible foam allows for smoother radius corners. Summary of benefits:

- Substantial improvement in the bond to glass, over current rubber and acrylic glazing tapes – especially in humid manufacturing conditions and when exposed to water.
- Significantly enhanced bond to the sash – vinyl, fiberglass, in dry or wet conditions.
- Improved heat resistance.
- The foam offers greater flexibility/pliability, a benefit to customers who manufacture using radius corners.

PHYSICAL PROPERTIES – Typical Values*

Test	ARclad® 8516	Mode of Failure
Z-directional dead load shear, 100°F/95% RH, Aluminum T-blocks, 1" x 1" x 500g	>40 hours	100% adhesive failure
Z-tensile, Aluminum T-blocks, 0.1"/min.	45.16#/in²	100% adhesive failure
180° Peel, SS, 12"/min., Average	7.78#/in²	100% foam split
Dynamic Shear, Aluminum panels, 0.1"/min.	38.09#/in²	100% adhesive failure

***All stated values are nominal and should only be used as a guide for selection. They are not specifications.** Users should assure the product meets the specific needs of their application(s). Adhesives Research can tailor the product to meet the needs of specific applications as requested by customers.

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STORAGE AND SHELF LIFE

One year from date of manufacture when stored at 70°F, 50% R.H.

ROLL SIZE AVAILABILITY

Coated material yields 54" width. Material can be slit to order. Standard widths from 0.5" to 54.0". Standard slitting tolerance: +/- 1/32". Tighter slitting tolerance may be available on request.

Standard roll length 150' to 300'.

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.

(Revised 11 June 2010)

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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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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