ARclad® Premium Foam Tapes for Window and Door Applications

Adhesives Research®

ARclad® Premium Foam Tapes are bringing unparalleled strength and uncompromising performance to muntin mounting tape.

Our ARclad® product line includes a wide variety of standardized and high-performance EVA Foam Tapes for demanding applications that require superior performance.

Introducing ARclad® 8626, ARclad® 8726, and ARclad® 8645 a stronger, higher performance foam tape specifically designed to meet the rigorous demands presented by the bonding of simulated divided light (SDL) grilles.

Tests show this new addition to Adhesives Research's ARclad® line of muntin mounting tapes offers superior long-term performance in all areas relevant to this unique application. Further, ARclad® 8626, ARclad® 8726, and ARclad® 8645 do not require a silane primer, eliminating the cost, risk, resources, and time associated with silane use.

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New windows of opportunity through expertise and innovation.

ARclad® 8626, ARclad® 8726, and ARclad® 8645 are the result of Adhesives Research taking a new approach to reengineering muntin bar adhesive tape. By reviewing and rethinking everything from the application's unique stresses to the adhesive, foam, coating and process, we have developed a product that delivers an optimal balance of properties, including:

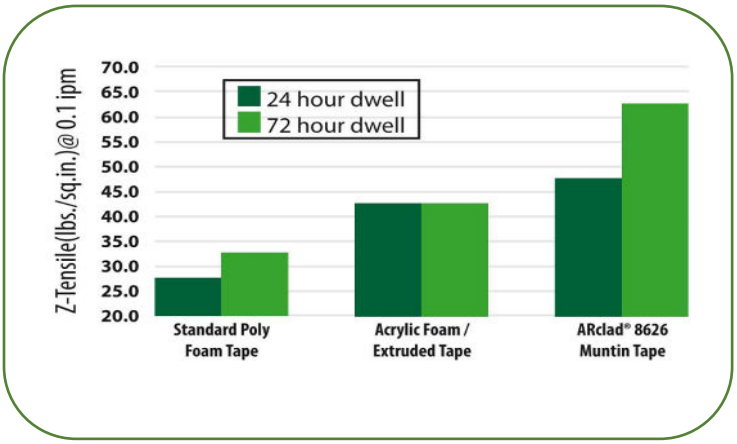
- Custom-developed polymer resists stress, fatigue, vibration, temperature cycling, moisture, cleaning solutions and UV.
- Highly conformable to glass and muntin surfaces, with excellent foam tape-to-surface wet-out.
- Superior wet-out seals out most contaminants, from the weather to cleaning solutions used before and after installation*.

*Citrus oil cleaners and muriatic acid brick treatment should be avoided with ARclad® 8626, ARclad® 8726, and ARclad® 8645.

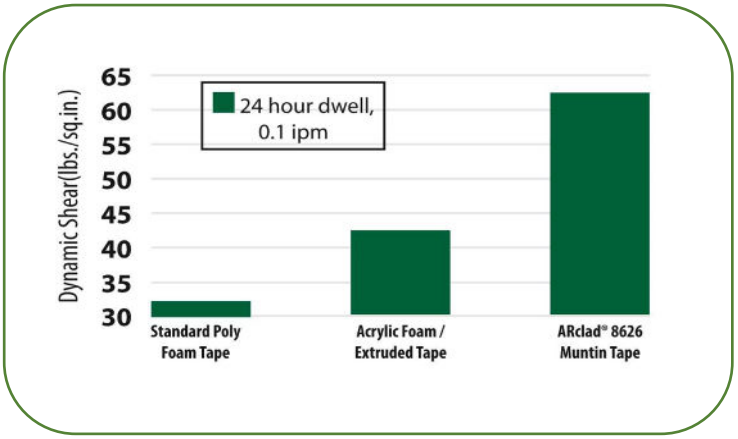
Premier performance where it matters most.

The product development process for ARclad® 8626, ARclad® 8726, and ARclad® 8645 began with a research phase. Our design team interviewed window manufacturers to determine the unique aspects of the muntin application. We discovered there is a degree of uncertainty in the marketplace.
The question was, "Which product performance lab tests really matter in a muntin application?" Adhesives Research has determined that two tests are most critical to evaluate a tape's capability to excel in a muntin application - Z-Tensile and Dynamic Shear.
Z-Tensile tests a tape's ability to resist forces pulling the grille away from the glass. And Dynamic Shear demonstrates the strength to withstand significant angled force similar to a homeowner using the muntin bar to open or close the window.

Z-Tensile Strength of Window Grille Assembly Tape



Dynamic Shear Strength of Window Grill Assembly Tape



*Users should test the product to ensure it 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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Product	Product Construction					
	Total Calliper (mills)	Adhesive	Foam Carrier	Foam Color	Adhesive	Liner
ARclad® 8626	35.6 mil	2.3 mil Acrylic	31 mil EVA Foam (1/32”)	Grey	2.3 mil Acrylic	3.0 mil Blue Polypropylene
ARclad® 8726	35.6 mil	2.3 mil Acrylic	31 mil EVA Foam (1/32”)	Black	2.3 mil Acrylic	3.0 mil Blue Polypropylene
ARclad® 8645	45.6 mil	2.3 mil Acrylic	41 mil EVA Foam (1/25”)	Grey	2.3 mil Acrylic	3.0 mil Blue Polypropylene

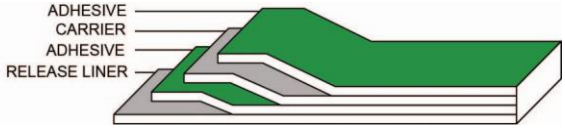
Product	Substrate								
	Acrylic	Aluminium	Aluminium Composite Material (ACM)	Glass	Primed Wood	Wood	Polycarbonate	PVC	Polypropylene
ARclad® 8626	X	X	X	X	X	X	-	X	-
ARclad® 8726	X	X	X	X	X	X	-	X	-
ARclad® 8645	X	X	X	X	X	X	-	X	-

Our Pressure Sensitive Adhesive (PSA’s) Technologies:

- **Acrylic-Based Adhesives**
  These systems are based on acrylic polymers. Acrylics are ideally suited for prolonged exposure and elevated temperatures, while offering solvent resistance and long-term aging stability. Acrylic adhesive systems can be compounded to have good balance of tack, peel and shear, and are most effective on high energy substrates.

Our PSA Tape Constructions:

- **Double Coated Foam Tape**



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About Adhesives Research:

Adhesives Research is a permanently independent developer and manufacturer of adhesives and coatings for various markets.

We utilize our material knowledge, polymer synthesis/formulation expertise, and versatile manufacturing capabilities to supply key components to the industry.

We offer robust products and technologies and can also rapidly customize to meet the specific needs of an application.

Headquartered in Glen Rock, PA. Adhesives Research has also sales and manufacturing facilities in Ireland and sales offices in China and Singapore.

To learn more information about how Adhesives Research can help solve tape and materials engineering challenges, contact us today.

Scan me for more details

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