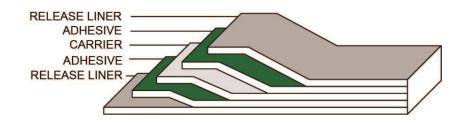
Product Information Sheet ARclad® 8458



ARclad® 8458 is a double-coated tape with silicone adhesive on either side of a polyetherimide carrier film. This tape is designed for use in high and low temperature applications requiring excellent long-term stability.

PRODUCT APPLICATIONS

The typical use for this product is for flexible circuits, gaskets and flexible heaters where a wide service temperature range is required.



FEATURES AND BENEFITS

- High performance pressure-sensitive silicone adhesive
- Tear resistant release liner
- Outstanding high/low temperature performance
- Easy to die cut and apply
- Excellent UV, moisture and chemical resistance

Product Construction					
	Typical Values*		Description		
Liner thickness	2.0 mil	51 μm	Clear PET release liner		
Adhesive thickness	2.2 mil	56 μm	Silicone adhesive		
Carrier thickness	1.0 mil	25 μm	Polyetherimide film		
Adhesive thickness	2.2 mil	56 μm	Silicone adhesive		
Liner thickness	2.0 mil	51 μm	Clear PET release liner		
Total thickness	5.4 mil	137 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 on stainless steel (both sides) (180°, 12 in/min, 5 min dwell)	60 oz/in	17 N/25.4 mm	ASTM D3330		
Static shear (both sides) (23 °C, 0.25 in², 1000g)	> 1440 min		ASTM D3654		
Liner release (both sides) (180°, 300 in/min)	21 g/2 in		ASTM D5375		
Maximum temperature	500 °F	260 °C			
Service temperature	-67 °F – 392 °F	-55 °C – 200 °C			
Recommended storage of unconverted product	70°F ± 77°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				

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

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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,

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.
- 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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