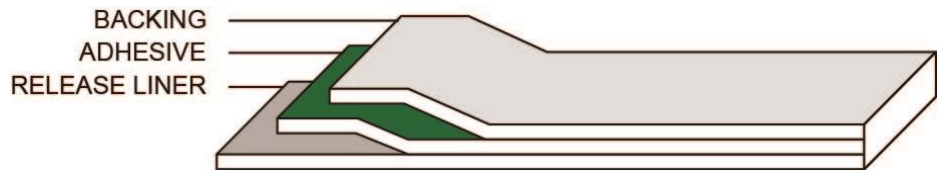


ARclean® 92073 is a single sided acrylic-acid free, ultra-low outgassing bonding tape.

PRODUCT APPLICATIONS

The typical use for this product is fabrication of filters for hard disk drives (HDDs) where clean strippability off of HDD base plates and covers is required for rework after burn-in.



FEATURES AND BENEFITS

- Ultra-low total VOCs
- Acrylic acid free and low extractable ions
- Low silicone extractable polyester film release liner and plastic cores
- Heat resistant to operating temperatures in HDD applications

Product Construction			
	Typical Values*		Description
Backing thickness	3.0 mil	77 µm	Black polyester film
Adhesive thickness	1.5 mil	38 µm	Acrylic adhesive
Liner thickness	2.0 mil	51 µm	Clear polyester release liner
Total thickness	4.5 mil	115 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	78 oz/inch	21.7 N/25mm	180 degrees, 12 ipm, 5 min. dwell
Static shear on stainless steel	Does not fail cohesively		½" x ½", 250 grams, 70°C
Release of S/F liner	33 g/2"		180 degrees, 300 ipm
Adhesive outgassing properties	Acetone:	Not detected	Dynamic Headspace GC/MS 85°C, 3 hrs.
	Siloxane:	Not detected	
	2-Ethyl Hexanol:	Not detected	
	Aldehydes:	< 0.009 µg/cm ²	
	Hydrocarbons:	< 0.165 µg/cm ²	
	Organic Acids:	< 0.002 µg/cm ²	
	Total Organics:	< 0.220 µg/cm ²	
Leachable ions	Fluoride:	Not detected	Ion Chromatography – Samples extracted for 1 hr. in 20 mL of ultrapure water at 85°C
	Chloride:	< 0.005 µg/cm ²	
	Nitrite:	Not detected	
	Bromide:	Not detected	
	Nitrate:	< 0.005 µg/cm ²	
	Phosphate:	Not detected	
	Sulfate:	< 0.005 µg/cm ²	
	Lithium:	Not detected	
	Sodium:	Not detected	
	Ammonium:	< 0.005 µg/cm ²	
	Potassium	Not detected	
	Magnesium	Not detected	
	Calcium:	Not detected	
Extractable Silicone	Silicone:	< 0.025 µg/cm ²	GC/MS analysis, extraction in hexane at room temperature
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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Product Information Sheet

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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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