

# ARclean® 8915-69-70

Permanent/Strippable Acrylic Acid-Free, Ultra - Low Outgassing Bonding Tape



Insight®  
Adhesives Research

## FEATURES

- Ultra - low total VOCs
- Acrylic acid-free
- Low extractable ions
- Permanent adhesive on one side and cleanly strippable adhesive on the other side
- 3-mil clear polyester film carrier
- Low silicone extractable polyester film release liner and plastic cores
- Heat resistant to operating temperatures in HDD applications

## BENEFITS

- Eliminates contamination and labor costs associated with adhesive residue during rework
- Suggested for bonding microcontamination filters inside of HDD housings
- Minimizes HDD system crashes due to contamination
- Minimizes media fogging and head corrosion

## PRODUCT APPLICATIONS

Fabrication of filters and seals for hard disk drives (HDDs) where clean strippability off of HDD base plates and covers is required for rework after burn-in. The “permanent” low outgassing adhesive is exposed upon removing the 1.5 mil polyester film release liner. 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.

## PRODUCT CONSTRUCTION

Clear Polyester Film Liner:	2.0 mils
Permanent Adhesive (AS-139):	1.5 mils
Polyester Carrier Film:	3.0 mils
Strippable Adhesive (AS-139):	1.5 mils
Clear Polyester Film Liner:	<u>1.5 mils</u>
Total:	9.5 mils nominal

### Test Methods

PSTC-133, ASTM D-1000, ART # 5006

## ADHESIVE PERFORMANCE PROPERTIES

180° Peel Adhesion/12" min.  
 Permanent Adhesive: 5 min. @ RT/SS - 50 oz./in.  
 Strippable Adhesive: 5-min. @ RT/SS - 50 oz./in.  
 250 gram Shear @ 70°C  
 Permanent and Strippable Adhesive: does not fail cohesively

### Test Methods

PSTC-101, ASTM D-3330, ART #1005

PSTC-107, ASTM D-3654, ART #2054

## ADHESIVE OUTGASSING PROPERTIES

Outgassing:

Total Acrylates:	Not Detected
Total Alcohols:	0.016 µg/cm <sup>2</sup>
Total Hydrocarbons:	0.019 µg/cm <sup>2</sup>
Total Organic Acids:	0.001 µg/cm <sup>2</sup>
Total Outgassing:	0.043 µg/cm <sup>2</sup>

### Test Methods

Dynamic Headspace GC/MS  
85°C, 3 Hours

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## Leachable Ions by IC

Fluoride:	Not Detected
Chloride:	Not Detected
Nitrite:	Not Detected
Bromide:	Not Detected
Nitrate:	Not Detected
Phosphate:	Not Detected
Sulfate:	Not Detected

## Test Method

Samples extracted for one hour in 20 ml of ultrapure water at 85°C. Leachates analyzed using Ion Chromatography

## STORAGE AND SHELF LIFE

One year when stored at 70°F, 50% R.H.

## SERVICE TEMPERATURE RANGE

Recommended Minimum Application Temperature: 50°F (10°C)  
 Service Temperature Range -40°F to 300°F (-40°C to 149°C)

Note: The data contained on this Product Information sheet are typical and should not be used in preparing specifications.

(Revised 8/27/09)

### **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.

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