

ARclean® 8906

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



Insight®
Adhesives Research

FEATURES

- Ultra - low total VOC's
- Acrylic acid-free
- Low extractable ions
- Permanent adhesive on one side and cleanly strippable adhesive on the other side
- 1-mil clear polyester film carrier
- Polyester release liner and plastic cores
- Can be made available with silicone-free polyester film release liner(s)

BENEFITS

- Eliminates contamination and labor costs associated with adhesive residue during rework
- Suggested for environmental seals on HDD housings
- Suggested for bonding microcontamination filters inside of HDD housings
- Minimizes HDD system crashes due to contamination
- Minimizes media fogging and head corrosion
- Permits fabrication of strippable seals with adhesive-free zones (AFZ)

PRODUCT APPLICATIONS

Fabrication of tape seals and filters for hard disk drives (HDD's) 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 white polyester film release liner. Particularly suitable for fabrication of strippable tape seals requiring "adhesive-free" zones. 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

White Polyester Film Liner:	2.0 mils
Permanent Adhesive (AS-133):	1.5 mils
Polyester Carrier Film:	1.0 mils
Strippable Adhesive (AS-131):	1.5 mils
Clear Polyester Film Liner:	<u>2.0 mils</u>
Total:	8.0 mils nominal

Test Methods

PSTC-33, ASTM D-1000, ART # 5006

ADHESIVE PERFORMANCE PROPERTIES

180° Peel Adhesion/12" min.
 Permanent Adhesive: 5 min. @ RT/SS - 80 oz./in.
 Strippable Adhesive: 5 min. @ RT/SS - 25 oz./in.
 Strippable Adhesive: 24 hr. @ 100°C/SS - 50 oz./in. (no adhesive residue)

Test Methods

PSTC-3, ASTM D-3300, ART #1005

ADHESIVE OUTGASSING PROPERTIES

Outgassing

Total Acrylates:	Not Detected
Total Alcohols:	0.003 µg/cm ²
Total Hydrocarbons:	0.016 µg/cm ²
Total Organic Acids:	Not Detected
Total Siloxanes:	Not Detected
Total Outgassing:	0.022 µg/cm ²

Test Methods

Dynamic Headspace GC/MS
85°C, 3 Hours

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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)

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
Lithium:	Not Detected
Sodium:	<10 ng/ cm ²
Ammonium:	<10 ng/ cm ²
Potassium:	Not Detected
Magnesium:	<10 ng/ cm ²
Calcium:	<10 ng/ cm ²

Test Methods

Samples extracted for one hour in 25 ml of ultrapure water at 85°C. Leachates analyzed using Ion Chromatography

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

(Revised - 09/12/00)

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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