

Product Information Sheet

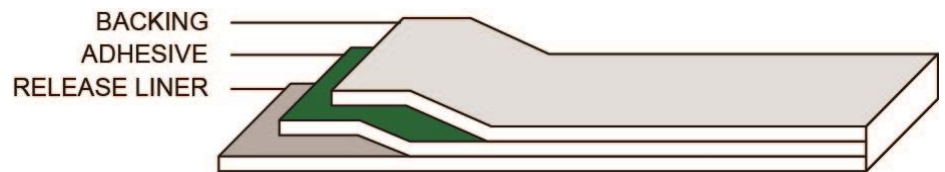
ARclean® 92073



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 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 | | Dynamic Headspace GC/MS 85°C, 3 hrs. |
| Leachable ions | Fluoride: Not detected 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 | | Ion Chromatography – Samples extracted for 1 hr. in 20 mL of ultrapure water at 85°C |
| 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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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.

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