ARclean® 90176
Electronically Clean Double-Coated Film

PRODUCT DESCRIPTION
ARclean® 90176 is an acrylic acid free acrylic adhesive double side coated polyester film tape designed for use in electronics applications requiring low corrosion resistance.

FEATURES
- Acrylic-acid free adhesive system
- Low extractable anions
- Polyester film carrier
- Withstands extremes in temperature and humidity
- Dual release liner system (tight release polycoated kraft, lay flat liner/easy release polyester film liner)

BENEFITS
- Minimizes corrosion of delicate oxide (ITO) or conductive surfaces
- Eliminates fogging and oxidation of conductive surfaces
- Enhances environmental stability
- Consistent caliper for spacer application
- Polyester film carrier provides dielectric barrier between bonded surfaces
- Easy to die cut and apply
- Kraft liner provides stiffness for handling, while polyester liner provides easy inspection of part

PRODUCT APPLICATIONS
Suggested for bonding electronic surfaces sensitive to fogging, oxidation and corrosion and for perimeter spacer bonding system of touch screens and similar electronic devices. All pressure-sensitive tapes require an application surface that is clean and dry. 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 PROFILE AND DIAGRAM – Typical Values*

Polycoated Kraft Liner: 6.5 mils
ARclean® Adhesive (AS-144): 1.5 mils
Polyester Carrier Film: 2.0 mils
ARclean® Adhesive (AS-144): 1.5 mils
Clear Polyester Film Liner: 2.0 mils
Total: 13.5 mils

Reference Test Methods: PSTC-133, ASTM D-1000

ADHESIVE PERFORMANCE PROPERTIES – Typical Values*

180° Peel Adhesion/12”min.
5'/SS -
Liner 1 side: 50 oz/inch
Liner 2 side: 65 oz/inch

Liner Release:
Liner 1: 150 gms/2” width
Liner 2: 20 gms/2” width

Particulate Occurrence: No more than 6 particles > 0.06 inches/100 sq. ft. of stock

Reference Test Methods: PSTC-101, ASTM D-3330, ART #1005
Particulate Method: Tappi Method T 437, ART #3068

*All stated values are nominal and should only be used as a guide for selection. They are not specifications.
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STORAGE AND SHELF LIFE

Unconverted product should be stored at 70°F ± 20°F (21°C ± 11°C) and 50% ± 20% relative humidity, out of direct sunlight. The shelf life of the product is not to exceed one year from date of manufacture.

SERVICE TEMPERATURE RANGE

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

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.

(Revised 16 February 2010)

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 Adhesives Research sales representative if you need additional information.

THIS IS NOT AN OFFER

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AR limits the purchaser’s remedies in the event of a breach of any warranty. The purchaser’s exclusive remedy and AR’s obligations for a breach of any warranty shall be as set forth in the Sales Order Acknowledgment.

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