

ARclean® W-4010 is a 2 mil (51 µm) clear polyester release liner with an easy release, thermally cured, and solventless silicone coating on one side. The release coating on ARclean® W-4010 is formulated and designed to be ultra-clean and have ultra-low extractables.

PRODUCT APPLICATIONS

The typical use for this product is for support and protection of pressure-sensitive adhesives (PSAs) requiring easy release with practically zero extractable silicone. ARclean® W-4010 is ideally suited for applications in medical and electronics where ultra-low contamination is required, including internal hard disc drive applications.

FEATURES AND BENEFITS

- *Ultra-low* extractable silicone surface prevents silicone contamination
- Stable release properties, no “lock-up”, and consistent release force over time
- Excellent thermal stability, aging resistance, and anchorage to the polyester base film
- Green, environmentally friendly, solvent-free coatings
- Free of PFAS (per- and polyfluoroalkyl substances)
- Suitable for indirect skin and food contact, US FDA Drug Master File (21 CFR)
- Compatible with clean room applications
- Retains adhesion and backside printability without silicone contamination



Product Information Sheet

ARclean® W-4010



Technical Properties				
Attribute*		Typical Values*		Test Method*
Liner release ¹		10 grams/2"		180 degree, 300 ipm
Extractable Silicone	Release Side Back Side	5 ng/cm ² (Range <20 ng/cm ²) 5 ng/cm ² (Range <20 ng/cm ²)		FTIR Extractable Silicones
Ionic Contamination Specification Limits (µg/cm ²)		≤0.05 - Fluoride, Chloride, Nitrite, Bromide, Nitrate, Phosphate, Sulfate, ≤0.20 - Total Anions (7) ≤0.16 - Ammonium, ≤0.20 - Total Cations (6)		Ion Chromatography
Recommended storage of unconverted product		70°F ± 20°F 50% ± 20% RH	21°C ± 11°C 50% ± 20% RH	
Core type†		Fiber		
Wind‡		Release coated side in		
Shelf life of unconverted product		Not to exceed two years from date of manufacture		

¹Utilizing AR EL-8883 acrylic test tape.

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

†Reflects master roll conformation.

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.

STORAGE OF LINERS

Customers should be aware of specific product shelf life. Shipping and storage conditions affect shelf life. The optimum storage temperature is 70°F (21°C). Cool, dry storage is recommended.

Consult your Adhesive Research sales representative if you need additional information.

THIS IS NOT AN OFFER

This Product Information sheet ("PI Sheet") is not an offer to sell by Adhesives Research ("AR") and does not contain any binding warranties or terms of sale. While this PI Sheet does contain technical information and general warranty information, this PI Sheet is non-binding and is for information purposes only. If you wish to purchase the product set forth on this PI Sheet ("Product"), or have any questions regarding the warranty or other terms related to this Product, contact AR customer service or a sales representative and they will provide you with AR's terms of sale for the Product in the form of a Sales Order Acknowledgment. AR shall not be bound by any terms or information set forth in this PI Sheet.

DISCLAIMER OF WARRANTIES

AR's warranty on product is limited to the warranty set forth in the Sales Order Acknowledgment. **NOTHING SET FORTH IN THIS PRODUCT INFORMATION SHEET SHALL CONSTITUTE A WARRANTY OF ANY KIND AND EXCEPT AS SET FORTH IN THE SALES ORDER ACKNOWLEDGMENT, AR EXPRESSLY DISCLAIMS ALL WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No provisions, statements, diagrams, drawings or pictures contained in any product literature, price list, catalogue, purchase order, product data sheet, order acknowledgment, invoice, delivery ticket, or any other communication by AR, including information on AR's website or statements made by AR's employees or agents, constitute express warranties. Results of tests and recommendations included in communications of AR do not constitute express warranties. MANY FACTORS MAY AFFECT THE USE AND PERFORMANCE OF AN AR PRODUCT IN A PARTICULAR APPLICATION, INCLUDING, AMONG OTHERS, THE PRODUCT SELECTED FOR USE, THE CONDITIONS IN WHICH THE PRODUCT IS USED, THE TIME AND ENVIRONMENTAL CONDITIONS IN WHICH THE PRODUCT IS EXPECTED TO PERFORM, THE MATERIALS TO BE USED WITH THE PRODUCT, THE SURFACE PREPARATION OF THOSE MATERIALS, AND THE APPLICATION METHOD FOR THE PRODUCT; THEREFORE, PURCHASER ACCEPTS RESPONSIBILITY FOR DETERMINING WHETHER AR'S PRODUCT IS FIT FOR A PARTICULAR PURPOSE AND SUITABLE FOR PURCHASER'S METHOD OF APPLICATION. AR retains the right to modify or change its products if in AR's judgment it is advisable.

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.

ARcare®, ARclad®, ARclean®, ARflow®, ARclear® are registered trademarks of Adhesives Research, Inc. ARseal™ is a trademark of Adhesives Research, Inc. Adhesives Research® is a registered service mark of Adhesives Research, Inc. for engineering and design services in the field of pressure-sensitive adhesive systems.

©2014 Adhesives Research, Inc. Printed in USA.

(Revised 19 June 2023)

North America – Headquarters

Adhesives Research, Inc.
400 Seaks Run Road
Glen Rock, PA 17327
Phone: +1 (717) 235-7979
Toll-free: +1 (800) 445-6240
Fax: +1 (717) 235-8320

Europe

Adhesives Research Ireland, Ltd.
Raheen Business Park
Raheen, Limerick
V94 VH22 Ireland
Phone: +353 61 300 300
Fax: +353 61 300 700

China

Adhesives Research China Co., Ltd.
Room 2710-2711, Building B
Far Glory International Square
No. 317 Xianxia Road
Shanghai, China 200051
Phone: +86 (21) 6150 4358
Fax: +86 21 6278 5576

Singapore

Adhesives Research PTE Ltd.
1 Paya Lebar Link
#04-01 Paya Lebar Quarter 1
Singapore 408533
Phone: +65 6955 8528
Fax: +65 6777 7261