

ARclear® 92168

Developmental Self Wetting Adhesive Surface Protection Film
Anti-Reflective Hardcoated Film with Self Wetting Adhesive



FEATURES

- Adhesive virtually self applies by spontaneously 'wetting out' on to smooth surfaces
- Enables very low pressure lamination
- Cleanly removable, even after extended periods of time
- Able to be repositioned, repeatedly
- Ultra low peels with no buildup
- High shear resistance prevents displacement
- Supplied on an anti-reflective, scratch and chemically resistant film
- Supplied with red masking film to protect the hardcoated film

BENEFITS

- Enables optical quality laminations in the field by unskilled end user
- Reduces damage to surface of touch screen or display
- Protects optical quality of display or touch screen surface
- Excellent stylus registration in touch screens
- Environmentally durable
- Easily die cut to fit intended display surface dimensions

PRODUCT APPLICATIONS

Suggested for temporary protection to the surface of touch screens and flat panel displays in high use, abusive or harsh environments. Removability enables protection film to be replaced when damaged, protecting the more sensitive and expensive display device below. 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

Anti-Reflective Glare Hardcoated Polyester	.004"	(102µm)	2H Pencil Hardness (ASTM D3363)
Self Wetting Adhesive	.002"	(51µm)	
Polyester Liner	.0015"	(38µm)	

ADHESIVE PERFORMANCE PROPERTIES – TYPICAL VALUES

180° Peel Adhesion, 12"/min.
5min dwell from glass

6 g/in.

180° Peel Adhesion, 12"/min.
24 hours dwell from glass

6 g/in.

Reference Test Methods:
PSTC-1, ASTM D-3330, ART #1005

OPTICAL PROPERTIES– TYPICAL VALUES

	<u>Self Wetting Adhesive</u>	<u>AR Film</u>
Refractive Index	1.468	1.52
Visible Light Transmission	99%	94%
Haze	<0.5	<1
Clarity	99%	99%

Test Methods

Gardner haze meter

ARclear® 92168

Developmental Self Wetting Adhesive Surface Protection Film
Anti-Glare Reflective Film with Self Wetting Adhesive



Insight®

Adhesives Research

ENVIRONMENTAL AGING DATA

Condition	Shelf Stability			Quality of Lamination		
	Chemistry	Adhesion	Color	Bondline	Optics	Removability
80°C 240 hours	Stable	No change	No change	No debonding or edge lifting	No change	No residue or adhesion buildup
-30°C 240 hours	Stable	No change	No change	No debonding or edge lifting	No change	No residue or adhesion buildup
-30°C to 70°C 10 cycles, 40 min dwell time	Stable	No change	No change	No debonding or edge lifting	No change	No residue or adhesion buildup

STORAGE AND SHELF LIFE

One year when stored at 22°C, 50% R.H.

SERVICE TEMPERATURE RANGE

Recommended minimum application temperature: 40°F (5°C)

Avoid prolonged exposure to water.

Product construction, adhesive thickness and level can be tailored to application needs.

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. These data should not be used in preparing specifications. Products identified as developmental may be subject to modification by Adhesives Research, Inc.

(01/14/08)

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.

DISCLAIMER

AR expressly warrants to Purchaser that its product, under normal and intended use maintenance and storage, is free from defects in workmanship for twelve (12) months from the date of shipment, unless otherwise stated. THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES. **AR MAKES NO WARRANTY AS TO EXPERIMENTAL AND DEVELOPMENTAL SAMPLES OR MATERIALS. AR MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No provisions, representations, 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 representations 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. SINCE 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, 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.

Purchaser's exclusive remedy and AR's sole obligation for any breach of warranty is limited to, at AR's option, either: 1) replacement of AR's product, or 2) reimbursement of the purchase price of AR's product. **AR DISCLAIMS ANY OTHER OBLIGATION OR LIABILITIES ARISING OUT OF BREACH OF WARRANTY.** AR will not be liable of any loss, damage, expense or consequential, incidental or special damages of any kind.

ARcare®, ARclean® and ARclear® are registered trademarks of Adhesives Research. Insight® is a registered service mark of Adhesives Research, Inc. Insight® - Without it, ideas languish... With it, products launch.™ is a service mark of Adhesives Research, Inc. Adhesives Research® is a registered trademark of Adhesives Research, Inc. for engineering and design services in the field of pressure-sensitive adhesive systems.

©2008 Adhesives Research, Inc. Printed in USA.

Internet: www.adhesivesresearch.com

Adhesives Research, Inc.
400 Seaks Run Road, P.O. Box 100
Glen Rock, PA 17327
Toll-free: 800-445-6240
Phone: 717-235-7979
Fax: 717-235-8320

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

Adhesives Research Ltd.
The Old Exchange, Mill Lane
Great Dunmow, Essex, UK CM6 1BG
Phone: +44 (0)1371 856300
Fax: +44 (0)1371 856380

Adhesives Research Pte. Ltd.
20 Maxwell Road
#12-08B Maxwell House
Singapore 069113
Phone: +65 6774 9580
Fax: +65 6777 7261

Adhesives Research Shanghai Representative Office
Suite 3908, Plaza 66 Tower 1
1266 Nanjing West Road
Shanghai, China 200040
Phone: +86 21 61038526
Fax: +86 21 61038527

Adhesives Research GmbH
Stefan-George-Ring 29, D-81929
München, Germany
Phone: +49 (0) 89 930 86 220
Fax: +49 (0) 89 930 51 84