

ARclear[®] 8932EE

Optically Clear Unsupported Silicone Transfer Adhesive



FEATURES

- Low haze
- High clarity
- High light transmission
- Non-birefringent
- Very broad temperature range
- Low flammability
- High bond levels to many surfaces, including low energy surfaces
- Reliable liner release and differential
- Clean room suitable - polyester release liners, plastic cores, clean room packaging

BENEFITS

- Long term durability
- Environmentally durable - resists temperature extremes, humidity and UV light
- Easy, mess free processing and bonding

PRODUCT APPLICATIONS

Suggested for bonding of flexible to flexible or flexible to rigid optical components such as backlights, polarizers, filters, retarders, diffusers; holographic, anti-reflective and hardcoated films as used in projection screens, touch screens, LCD's and flat panel displays. 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*

Polyester Liner	2.0 mils (50 μ)
Adhesive	1.6 mils (40 μ)
Polyester Liner	2.0 mils (50 μ)



ADHESIVE PERFORMANCE PROPERTIES – Typical Values*

180° Peel Adhesion 12"/min. 20 min. from stainless steel	60 oz./in.
Static Shear ½" x ½", 500 g.	>4 hours

Test Methods

PSTC-101, ASTM D-3330, ART #1005

PSTC -107, ART #2054

OPTICAL PROPERTIES – Typical Values*

Refractive Index	1.41
Visible light Transmission	≥98%
Haze	≤ 2%
Clarity	≥98%

Test Methods

ART #4064 (Gardner haze meter)

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***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 36°F to 77°F (2°C to 25°C) and 50% ± 10% relative humidity, out of direct sunlight. Storage at cooler temperatures can reduce the natural tendency for liner release force to increase over time. 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)

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 15 December 2016)

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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