

# ARclear® 8154

Optically Clear Unsupported Transfer Adhesive



## FEATURES

- Low haze
- High clarity
- High light transmission
- Non-birefringent
- High bond levels to many surfaces
- Reliable liner release and differential
- Clean room suitable - polyester release liners, plastic cores, clean room packaging

## BENEFITS

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

## PRODUCT APPLICATIONS

Virtually defect free 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. Users should assure the product meets the specific needs of their application(s). Adhesives Research, Inc. can tailor the product to meet the needs of specific applications as requested by customers.

## PRODUCT CONSTRUCTION - TYPICAL VALUES

Polyester Liner	2.0 mils (50μ)
Adhesive	1.0 mils (25μ)
Polyester Liner	1.5 mils (37.5μ)

## ADHESIVE PROPERTIES - TYPICAL VALUES

		<u>Test Methods</u>
180° Peel Adhesion 12"/min. 20 min. from stainless steel	30 oz./in.	PSTC-1, ASTM D-3300, ART #1005
Static Shear ½" x ½", 500 g.	4 hours	PSTC -7, ART #2054

## OPTICAL PROPERTIES - TYPICAL VALUES

		<u>Test Methods</u>
Refractive Index	1.47	
Visible Light Transmission	≥98%	ART #4064 (Gardner haze meter)
Haze	≤ 2%	"
Clarity	≥98%	"

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Insight®  
Adhesives Research

### STORAGE AND SHELF LIFE

One year when stored at 70°F, 50% R.H.

### SERVICE TEMPERATURE RANGES

Recommended Minimum Application Temperature: 50°F (10°C)

(Revision - 01/04/05)

#### **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**

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