

# Avery<sup>®</sup> Greenline GP3400 Series

Permanent or Removable Kraft

(formerly: New Product)

Revision: 0 Dated: 09/30/2009

## Uses:

Avery Dennison™ Greenline 3400 series films are environmentally responsible alternative films compared to traditional self-adhesive PVC films. These products are especially well suited for applications such as Point of Purchase, Product Identification Labels, Bumper Stickers, Short Term OEM Decals, Window Graphics, Indoor & Outdoor Graphics, and Posters.



**Face:** 2.3 mil (60 µm) top coated polypropylene



**Adhesive:** Permanent and removable acrylic (clear)



**Liner:** Kraft C1S



**Durability:** Up to 1 year (unprinted)

**Application Surfaces:**

Flat, simple curves (restricted to non-spill areas)

## Features:

- Greenline 3400 White – gloss finish (Permanent)
- Greenline 3460 Clear – gloss finish (Permanent)
- Greenline 3420 White – matte finish (Permanent)
- Greenline 3401 White – gloss finish (Removable)
- Great image clarity and color pop
- Dimensionally stable liner for easy converting
- Screen, offset, or UV inkjet printable
- Manufactured using PVC & phthalate free film technology and a solvent free adhesive, with a Kraft (wood free) paper liner. These films contain no PVCs or monomeric plasticizers, and they eliminate any halogen related disposal concerns.

## Conversion:

- Thermal Die-Cutting
- Flat Bed Sign-Cut
- Drum Roller Sign-Cut
- Steel Rule Die-Cutting

- Thermal Transfer
- Screen Printing
- Cold Overlaminating
- Water based inkjet

- Solvent based inkjet
- Mild/Eco Solvent inkjet
- UV inkjet
- Offset Printing

## Common Applications:

- Truck
- Vehicle
- Marine/ Watercraft

- Backlit Signs
- Wall Murals
- POP/ Tradeshow

- Window Graphics
- Outdoor Signage
- Floor Graphics



## Product Data Sheet

Page 1 of 3



# Avery® Greenline GP3400 Series

Permanent or Removable Kraft

(formerly: New Product)

Revision: 0 Dated: 09/30/2009

## Physical Characteristics:

Property		Value
Caliper, face		2.2 mil (60 µm)
Caliper, adhesive		1.0mil (25 µm)
Dimensional stability		0.008" (0.2 mm)
Gloss	20°	Gloss White 47%
	60°	Matte White 4%
	20°	Gloss Clear 105%
Opacity	Gloss & Matte White	>85%
Transparency	Gloss Clear	90%
Adhesion: 24 hr.	Perm.	2.0 lbs/in (360 N/m)
	24 hr Rem.	0.5 lbs/in (100 N/m)
Flammability		Self Extinguishing
Shelf-Life		1 year
Durability	Vertical Exposure	Up to 1 year
Min. Application Temperature		35°F (2°C)
Service Temperature		-40° - 180°F (-40° - 82°C) (Reasonable range of temperatures which would be expected under normal environmental conditions).
Chemical resistance		Resistant to most mild acids, alkalis, and salt solutions.

### Important:

Information on physical and chemical characteristics are based on tests believed to be reliable. The values are intended only as a source of information. This information is given without guaranty and do not constitute a warranty. The purchaser should independently determine, prior to use, the suitability of any material for their specific purpose. (Data represents average values where applicable, and is not intended for specification purposes)

### Warranty:

All statements, technical information and recommendations about Avery Dennison products are based upon tests believed to be reliable but do not constitute a guarantee or warranty. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its purposes. Avery Dennison products are warranted to be free from defects in material and workmanship for either one year (or the period stated on the specific product information literature in effect at time of delivery, if longer) from date of shipment if said product is properly stored and applied. It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective product without charge at Avery Dennison's plant or at the location of product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the product.

Avery Dennison's liability for defective products shall not exceed the purchase price paid therefore by Purchaser and in no event shall Avery Dennison be responsible for any incidental or consequential damages whether foreseeable or not, caused by defects in such product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence.

NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES, WHETHER OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE, OR OTHERWISE (EXCEPT AS TO TITLE), OTHER THAN THOSE EXPRESSLY SET FORTH ABOVE WHICH ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, SHALL APPLY TO PRODUCTS SOLD BY AVERY DENNISON. AVERY DENNISON SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER SUCH WARRANTIES. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

## Product Data Sheet

Page 2 of 3

Graphics & Reflective Products Division  
250 Chester Street  
Painesville, OH 44077



AnswerLine: 800-231-4654  
www.averygraphics.com

# Avery<sup>®</sup> Greenline GP3400 Series

Permanent or Removable Kraft

(formerly: New Product)

Revision: 0 Dated: 09/30/2009

## **Dimensional stability:**

Is measured on a 6" x 6" (150 x 150 mm) aluminum panel to which a specimen has been applied; 72 hours after application the panel is scored in a cross pattern, exposed for 48 hours to 150°F (65°C), after which the shrinkage is measured.

## **Adhesion:**

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 15 minutes after application of the specimen.

## **Flammability:**

A specimen applied to aluminum is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

## **Temperature range:**

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

## **Chemical Resistance:**

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

## **Standards /Regulations:**

These products meet the European Toy Regulations EN 71-3 and the January 2007 revision of the EU-Phthalates Directive 2005/84/EC. The products also comply with the US CONEG Model Toxics Legislation, the EC Directive 94/62/EC, article 11 on packaging and packaging waste and RoHS Compliance guidelines, with reference to the acceptable levels of heavy metals, i.e. sum of heavy metals Cadmium, Mercury, Lead and Chromium (VI) is less than 100 ppm. Also both adhesives are approved in accordance to BfR and the removable is additionally approved to FDA for food contact.

## **Application:**

Application on wet surfaces or using an application fluid (wet applied) may result in adhesive residues being left on the surface after removal when using the removable adhesive product. As no two surfaces are the alike, trials are recommended prior to use in order to ascertain clean removability.

*Revisions are italicized*

Avery Dennison is a registered trademark of Avery Dennison Corp.

\*Avery Dennison EcoFriendly is a trademark of Avery Dennison Corporation. This mark indicates that these products and materials were produced with environmentally beneficial features. For more specific information on Avery Dennison's eco-friendly product features and corporate philosophy on sustainability, go to [www.averygraphics.com](http://www.averygraphics.com).

## Product Data Sheet

Page 3 of 3

Graphics & Reflective Products Division  
250 Chester Street  
Painesville, OH 44077



AnswerLine: 800-231-4654  
[www.averygraphics.com](http://www.averygraphics.com)