

# ADVANCENE™ EE-1802-AAB

## Linear Low Density Polyethylene Resin

### Overview:

ADVANCENE™ EE-1802-AAB is a part of a Butene LLDPE series designed for the Blown and Cast film process, offering high gloss and excellent draw down. Films made from ADVANCENE™ EE-1802-AAB resin have very good tensile and toughness properties.

### Applications:

- Agricultural Film.
- Bag in Box.
- Cast Film.
- Blown Film.
- Bread Bags.
- Food Packaging.
- Form Fill and Seal Packaging.
- Freezer Film.
- Garment Film.
- General Packaging.
- Industrial Packaging.
- Industrial Can Liners.
- Industrial Packaging.
- Lamination Film.
- Mulch Film
- Liners.
- Multilayer Packaging Film.
- Packaging Films.
- Personal Care
- Produce Bags on a Roll.
- Refuse Bags.
- Shoppers.
- Trash Can Liners.

### Additives:

Thermal Stabilizer

### Complies with:

- Europe EU 10/2011 followed by its amended.
- U.S. FDA 21 CFR 177.1520(c)3.1a.

Physical Properties	Nominal Value (SI)	Test Based On
Density	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	2.0 g/10min	ASTM D1238, ISO 1133
Peak Melting Temperature	121 °C	ASTM D3418, ISO 3146
Film Properties	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	11.0 MPa	ASTM D882
Tensile Strength at Yield TD	10.0 MPa	
Tensile Strength at Break MD	49.0 MPa	
Tensile Strength at Break TD	29.0 MPa	
Elongation at Break MD	600 %	
Elongation at Break TD	800 %	
Secant Modulus MD - 1%	190 MPa	
Secant Modulus TD - 1%	220 MPa	
Dart Drop Impact	66 g	ASTM D1709A, ISO 7765
Elmendorf Tear Strength MD	85 g	ASTM D1922, ISO 6383-2
Elmendorf Tear Strength TD	400 g	
Optical Properties	Typical Value (SI)	Test Based On
Gloss (45°)	76	ASTM D2457
Haze	4.4 %	ASTM D1003

### Processing Statement

The film properties have been measured on 25 µm thick films (Blow-up ratio: 2.5:1).

### Processing Conditions

- Screw speed = 60–85% of maximum.
- BUR = 2.5:1 to 3:1.
- Temperature setting from 195°C - 205°C.

**Notes:**

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

**Availability:**

This product is supplied in 25 kg bags in secured pallets of 60 bags (1.500 MT net). It is also supplied in jumbo bags of 1000 kg capacity.

**Storage:**

The product should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product. More information on storage can be found on the Safety Information Sheet for this product.

**Safety:**

The product is not classified as a hazardous mixture.

Dust and fines from the product carry a risk of dust explosion. All equipment should be properly earthed. Inhalation of dust should be avoided as it may cause irritation of the respiratory system. Small amounts of fumes are generated during processing of the product. Proper ventilation is therefore required.

A Safety Information Sheet is available on request. Please contact your ETHYDCO representative for more details on various aspects of safety, recovery and disposal of the product.

**Recycling:**

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

**Related documents:**

Most datasheets and statements are available on ETHYDCO website [www.ethydc0-eg.com](http://www.ethydc0-eg.com). If more information is required, please contact an ETHYDCO representative for information.

**Disclaimer:**

**The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications**

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

ETHYDCO makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy them with the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of ETHYDCO products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third-party materials.

ADVANCENE™ is a trademark of ETHYDCO