

ADVANCENE™ EE-1801-AAB

Linear Low Density Polyethylene Resin

Overview:

ADVANCENE™ EE-1801-AAB is a part of an LLDPE series offering excellent drawdown and puncture resistance combined with high gloss and clarity. They are also frequently used as a blend partner with LDPE resins to improve film properties and processability. Several additive packages are available according to the required surface properties.

Applications:

- Agricultural Film.
- Bag in Box.
- Barrier Food Packaging.
- Blown Film.
- Bread Bags.
- Food Packaging.
- Form Fill and Seal Packaging.
- Freezer Film.
- Garment Film.
- General Packaging.
- Heavy Duty Bags.
- Ice Bags.
- Industrial Liners.
- Industrial Packaging.
- Lamination Film.
- Liners.
- Multilayer Packaging Film.
- Packaging Films.
- Produce Bags.
- Refuse Bags.
- Shoppers.
- Stand Up Pouches.
- Trash Bags.
- Pharmaceutical applications

Additives:

Thermal Stabilizer

Complies with:

- Europe EU 10/2011 followed by its amended.
- U.S. FDA 21 CFR 177.1520(c)3.1a.
- European pharmacopeia EP 3.1.5

Physical	Nominal Value (SI)	Test Based On
Density	0.918 g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	1.0 g/10min	ASTM D1238, ISO 1133
Peak Melting Temperature	120 °C	ASTM D3418, ISO 3146
Film Mechanical 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	57.0 MPa	
Tensile Strength at Break TD	38.0 MPa	
Elongation at Break MD	590%	
Elongation at Break TD	860%	
Secant Modulus MD - 1%	220 MPa	
Secant Modulus TD - 1%	250 MPa	
Dart Drop Impact	120 g	ASTM D1709A, ISO 7765
Elmendorf Tear Strength MD	120 g	ASTM D1922, ISO 6383-2
Elmendorf Tear Strength TD	480 g	
Optical Properties	Typical Value (SI)	Test Based On
Gloss (45°)	47	ASTM D2457
Haze	9.0%	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. If more information is required, please contact an ETHYDCO representative for information.

Disclaimer:

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.

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