

ADVANCENE™ EE-1803-AAB

Linear Low Density Polyethylene

Overview:

ADVANCENE™ EE-1803-AAB is a butene comonomer based LLDPE grade suitable for cast film applications offering easy processability, excellent optical properties and excellent mechanical properties.

Additives	<u>Thermal Stabilizers</u>	<u>Slip Agent</u>	<u>Anti-block Agent</u>
	Yes	No	No

Applications:

- Cast Film
- Food Packaging
- General Packaging
- Co-layer in co-extruded film or blend component

Physical	Typical Value (SI)	Test Based On
Density	0.918 g/cm ³	ASTM D792
Melt Index (190 °C/2.16 Kg)	2.8 g/10 min	ASTM D1238, ISO 1133
Peak Melting Temperature	121 °C	ASTM D3418, ISO 3146
Film Properties	Typical Value (SI)	Test Based On
Film Thickness - Tested	21 µm	ASTM D882
Tensile Strength at Break MD	50 MPa	ASTM D882
Tensile Strength at Break TD	24 MPa	ASTM D882
Elongation at Break MD	500%	ASTM D882
Elongation at Break TD	810%	ASTM D882
Secant Modulus MD - 1% Secant	120 MPa	ASTM D882
Secant Modulus TD – 1% Secant	140 MPa	ASTM D882
Dart Drop Impact	60 g	ASTM D1709A
Elmendorf Tear Strength MD	40 g	ASTM D1922
Elmendorf Tear Strength TD	500 g	ASTM D1922
Optical Properties	Typical Value (SI)	Test Based On
Gloss (45°)	93	ASTM D2457
Haze	1.5%	ASTM D1003

Extrusion	Nominal Value (SI)	Test Method
Melt Temperature	288 °C	--

Extrusion Notes

Fabrication Conditions for Cast Film:

Film properties measured on a 21 µm (0.83 mil) cast film, extruded on a cast film line at 238 m/min (780 ft/min) line speed.

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 in 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 a ETHYDCO representative for information.

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.

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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