



ADVANCENE™ EE-1802-AAB

ETHYDCO - Linear Low Density Polyethylene

General Information

Product Description

ADVANCENE™ EE-1802-AAB is a part of a Butene LLDPE series designed for the Blown & 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.
- Institutional Can Liners.
- Lamination Film.
- Liners.
- Mulch Films.
- Multilayer Packaging Film.
- Packaging Films.
- Personal Care.
- Produce Bags on a Roll.
- Shoppers.
- Trash Can Liners.

General

Features	<ul style="list-style-type: none"> • Good Drawdown • Good Toughness 	<ul style="list-style-type: none"> • High Gloss • Recyclable Material 	
Uses	<ul style="list-style-type: none"> • Agricultural Applications • Bags • Blown Film • Cast Film 	<ul style="list-style-type: none"> • Film • Food Packaging • Industrial Applications • Laminates 	<ul style="list-style-type: none"> • Liners • Multilayer Film • Packaging
Processing Method	<ul style="list-style-type: none"> • Blown Film 	<ul style="list-style-type: none"> • Cast Film 	

Properties¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.920	0.918 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 g/10 min	2.0 g/10 min	ASTM D1238 ISO 1133

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Films	Typical Value (English)	Typical Value (SI)	Test Method
Film Thickness - Tested	1.0 mil	25 µm	
Secant Modulus			ASTM D882
1% Secant, MD	27600 psi	190 MPa	
1% Secant, TD	31900 psi	220 MPa	
Tensile Strength			ASTM D882
MD : Yield	1600 psi	11.0 MPa	
TD : Yield	1450 psi	10.0 MPa	
MD : Break	7110 psi	49.0 MPa	
TD : Break	4210 psi	29.0 MPa	
Tensile Elongation			ASTM D882
MD : Break	600 %	600 %	
TD : Break	800 %	800 %	
Dart Drop Impact	66 g	66 g	ASTM D1709A ISO 7765-1
Elmendorf Tear Strength			ASTM D1922 ISO 6383-2
MD	85 g	85 g	
TD	400 g	400 g	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Peak Melting Temperature	250 °F	121 °C	ASTM D3418 ISO 3146
Optical	Typical Value (English)	Typical Value (SI)	Test Method
Gloss (45°)	76	76	ASTM D2457
Haze	4.40 %	4.40 %	ASTM D1003

Additional Information

The film properties have been measured on 25.4 µm (1.0 mil) thick film (screw diameter = 75 mm, die gap = 2.5 mm, BUR = 2.5 and temperature setting of 200°C).

Optical film properties have been measured on a 25.4 µm thick film (without antiblock) with addition of 10% LDPE at the same conditions