ADVANCENE™ EE-1801-AAB

ETHYDCO - Linear Low Density Polyethylene

General Information

Product Description

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:

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

General

Features	• Good Drawdown • High Clarity	• High Gloss • Puncture Resistant	• Recyclable Material
Uses	• Agricultural Applications • Bags • Blending • Blown Film • Film	• Food Packaging • Heavy-duty Bags • Industrial Applications • Laminates • Liners	• Multilayer Film • Packaging • Stand Up Pouch - Flexible Packaging
Processing Method	• Blown Film	• Film Extrusion	

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Properties [1]					
Physical	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Density / Specific Gravity	0.920		0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	1.0	g/10 min	ASTM D1238 ISO 1133
Films	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Film Thickness - Tested	1.2	mil	30	µm	
Secant Modulus					ASTM D882
1% Secant, MD	31900	psi	220	MPa	
1% Secant, TD	36300	psi	250	MPa	
Tensile Strength					ASTM D882
MD : Break	8270	psi	57.0	MPa	
TD : Break	5510	psi	38.0	MPa	
Tensile Elongation					ASTM D882
MD : Break	590	%	590	%	
TD : Break	860	%	860	%	
Dart Drop Impact	120	g	120	g	ASTM D1709A ISO 7765-1
Elmendorf Tear Strength					ASTM D1922 ISO 6383-2
MD	120	g	120	g	
TD	480	g	480	g	
Thermal	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Peak Melting Temperature	248	°F	120	°C	ASTM D3418 ISO 3146
Optical	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Gloss (45°)	47		47		ASTM D2457
Haze	9.00	%	9.00	%	ASTM D1003

Additional Information

The film properties have been measured on 30 µm (1.18 mil) thick films (Blow-up ratio : 2.5)