



ADVANCENE™ EE-3914-AAH

ETHYDCO - Medium Density Polyethylene

General Information

Product Description

This high molecular weight hexene copolymer provides:

- Excellent overall balance of Processability, Toughness and Strength.
- Good impact strength and tear properties.

Applications:

- General purpose thin film, trash bags, merchant bags.
- Blending partner.
- Produce bags.
- Shopping bags.

General

Features	<ul style="list-style-type: none"> • Copolymer • Good Impact Resistance • Good Tear Strength 	<ul style="list-style-type: none"> • Hexene Copolymer • High Molecular Weight • Medium Density 	<ul style="list-style-type: none"> • Recyclable Material
Uses	<ul style="list-style-type: none"> • Bags • Blending 	<ul style="list-style-type: none"> • Film • General Purpose 	
Processing Method	<ul style="list-style-type: none"> • Extrusion 		

Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	0.941	0.939 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	14 g/10 min	14 g/10 min	ASTM D1238 ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Flexural Modulus - Tangent	110000 psi	760 MPa	ASTM D790
Films	Typical Value (English)	Typical Value (SI)	Test Method
Film Thickness - Tested	0.98 mil	25 µm	
Tensile Strength			ASTM D882
MD : Yield ²	3050 psi	21.0 MPa	
TD : Yield ²	3340 psi	23.0 MPa	
MD : Break	5080 psi	35.0 MPa	
TD : Break	3920 psi	27.0 MPa	
Tensile Elongation ²			ASTM D882
MD : Break	500 %	500 %	
TD : Break	660 %	660 %	
Dart Drop Impact	170 g	170 g	ASTM D1709A ISO 7765-1

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Films	Typical Value (English)	Typical Value (SI)	Test Method
Elmendorf Tear Strength			ASTM D1922
MD	30 g	30 g	
TD	350 g	350 g	
Spencer Impact	3.10 in·lb	0.350 J	ASTM D3420
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Brittleness Temperature	< -103 °F	< -75.0 °C	ASTM D746