ADVANCENE™ bEE-4909-AAH

High Density (HMW) Polyethylene

ETHYDCO

Message:

ADVANCENE™ bEE-4909-AAH is a bimodal high molecular weight high density ethylene-hexene copolymer, produced using Advanced Gas phase PE Process in a single reactor. Its high molecular weight, bimodal molecular weight distribution and optimum density results in films with high strength, high rigidity and excellent processability. Tubular films of ADVANCENE™ bEE-4909-AAH resin are recommended for high strength grocery sacks, shopping bags and other thin film applications. The combination of strength, toughness and drawdown makes this resin ideal for downgauging in many applications. Films are readily treated and printed to give high-quality graphics. ADVANCENE™ bEE-4909-AAH resin is compatible with color concentrates, thus permitting the production of a variety of colored films that serve as protective and attractive decorative wraps.

Main Charactenstlcs:

Hexene High Density Resin.

Bimodal Molecular weight distribution.

High film strength.

General Information

Excellent processability and drawdown.

Features	Excellent Processability									
	Good Printability Rigidity, high High molecular weight High density High strength Copolymer									
						hexene comonomer				
						Recyclable materials Good stripping				
							Good toughness			
							Bimodal molecular weight distribution			
	Uses	Films								
		Bags								
	Processing Method	Film extrusion								
Physical	Nominal Value	Unit	Test Method							
Specific Gravity	0.949	g/cm³	ASTM D792							
Melt Mass-Flow Rate (MFR) (190°C/21.6										
kg)	9.0	g/10 min	ASTM D1238, ISO 1133							
Films	Nominal Value	Unit	Test Method							
Film Thickness - Tested	13	μm								
Film Puncture Energy ¹	0.940	J								
Tensile Strength			ASTM D882							
MD: Yield, 13 µm	32.0	MPa	ASTM D882							

TD: Yield, 13 µm 30.0 MPa ASTM D882 MD: Broken, 13 µm 71.0 MPa ASTM D882 TD: Broken, 13 µm 68.0 MPa ASTM D882 Tensile Elongation				
TD: Broken, 13 μm 68.0 MPa ASTM D882 Tensile Elongation	TD: Yield, 13 μm	30.0	MPa	ASTM D882
Tensile Elongation ASTM D882 MD: Broken, 13 μm 350 % ASTM D882 TD: Broken, 13 μm 350 % ASTM D882 Dart Drop Impact (13 μm) 260 g ASTM D1709A, ISO 7765-1 Elmendorf Tear Strength 35M D1922 ASTM D1922 MD: 13 μm² 11 g ASTM D1922 TD: 13 μm 24 g ASTM D1922 Thermal Nominal Value Unit Test Method Peak Melting Temperature 130 °C ASTM D3418, ISO 3146 Extrusion Nominal Value Unit Test Method NOTE NOTE *C **	MD: Broken, 13 µm	71.0	MPa	ASTM D882
MD: Broken, 13 μm 350 % ASTM D882 TD: Broken, 13 μm 350 % ASTM D882 Dart Drop Impact (13 μm) 260 g ASTM D1709A, ISO 7765-1 Elmendorf Tear Strength TSTM D1922 ASTM D1922 MD: 13 μm² 11 g ASTM D1922 TD: 13 μm 24 g ASTM D1922 Thermal Nominal Value Unit Test Method Extrusion Nominal Value Unit ASTM D3418, ISO 3146 Extrusion Nominal Value Unit Test Method NOTE NOTE Univation Method Test Method	TD: Broken, 13 µm	68.0	MPa	ASTM D882
TD: Broken, 13 μm 350 % ASTM D882 Dart Drop Impact (13 μm) 260 g ASTM D1709A, ISO 7765-1 Elmendorf Tear Strength	Tensile Elongation			ASTM D882
Dart Drop Impact (13 μm) 260 g ASTM D1709A, ISO 7765-1 Elmendorf Tear Strength	MD: Broken, 13 µm	350	%	ASTM D882
Elmendorf Tear Strength MD: 13 µm² 11 24 Q ASTM D1922 Thermal Nominal Value Unit Test Method Peak Melting Temperature 130 C ASTM D1922 ASTM D1922 ASTM D1922 Test Method Unit Test Method Dit Extrusion Nominal Value Unit Voit Nominal Value Unit Unit Voit Nominal Value Voit Nominal Value Unit Voit Nominal Value Nominal Value Nominal Value Voit Nominal Value Nominal Value Voit Nominal Value Nominal Value Nominal Value Voit Nominal Value Nominal Value Nominal Value Voit Nominal Value Nominal Value Voit Nominal Value Nominal Value Nominal Value Voit Nominal Value Nomina	TD: Broken, 13 µm	350	%	ASTM D882
MD: 13 μm ² TD: 13 μm 24 Nominal Value Unit Test Method Peak Melting Temperature 130 C Extrusion Nominal Value Unit Unit ASTM D1922 ASTM D1922 ASTM D3418, ISO 3146 C Extrusion Nominal Value Unit Melt Temperature 200 - 215 C NOTE 1. Univation Method	Dart Drop Impact (13 μm)	260	g	ASTM D1709A, ISO 7765-1
TD: 13 µm 24 g g ASTM D1922 Thermal Nominal Value Unit Test Method Peak Melting Temperature 130 °C ASTM D3418, ISO 3146 Extrusion Nominal Value Unit Melt Temperature 200 - 215 °C NOTE 1. Univation Method	Elmendorf Tear Strength			ASTM D1922
Thermal Nominal Value Unit Test Method Peak Melting Temperature 130 °C ASTM D3418, ISO 3146 Extrusion Nominal Value Unit Melt Temperature 200 - 215 °C NOTE 1. Univation Method	MD : 13 μm ²	11	g	ASTM D1922
Peak Melting Temperature 130 °C ASTM D3418, ISO 3146 Extrusion Nominal Value Unit Melt Temperature 200 - 215 °C NOTE 1. Univation Method	TD : 13 μm	24	g	ASTM D1922
Extrusion Nominal Value Unit Melt Temperature 200 - 215 °C NOTE 1. Univation Method	Thermal	Nominal Value	Unit	Test Method
Melt Temperature 200 - 215 °C NOTE 1. Univation Method	Peak Melting Temperature	130	°C	ASTM D3418, ISO 3146
NOTE 1. Univation Method	Extrusion	Nominal Value	Unit	
1. Univation Method	Melt Temperature	200 - 215	°C	
	NOTE			
2. Method B	1.	Univation Method		
	2.	Method B		

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