ADVANCENE™ EE-4811-AAH

High Density (HMW) Polyethylene

ETHYDCO

Message:

ADVANCENE™ EE-4811-AAH High Density Polyethylene Resin is a high molecular weight, high-density polyethylene copolymer that has been designed specically for tubular film extrusion. Its broad molecular weight distribution and density successfully combine excellent performance at high extrusion rates with high film strength and rigidity. Tubular films of ADVANCENE™ EE-4811-AAH Resin are recommended for high strength grocery sacks. shopping bags and notion and millinery bags. The excellent drawdown characteristic of this product permits production of high-quality thin films for multiwall sack liners and replacements for thin paper products. The combination of strength and drawdown makes this resin ideal for downgauging in many applications. Films are readily treated and printed to give high-quality graphics. ADVANCENE™ EE-4011-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 Characteristics:
Hexene High Density Resin.
High film strength.
Excellent processability and drawdown.

General Information			
Features	Excellent Processability		
	Good Printability		
	Rigidity, high		
	High molecular weight		
	High density		
	High strength		
	Copolymer		
	hexene comonomer		
	Recyclable materials		
	Wide molecular weight distribution		
	Good stripping		
	Good coloring		
Uses	Films		
	Lining		
	Bags		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.948	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	11	g/10 min	ASTM D1238, ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Flexural Modulus - 1% Secant	814	MPa	ASTM D790, ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	13	µm	
Film Puncture Energy [1]	1.20	J	

Tensile Strength			ASTM D882
MD: Yield, 13 µm	27.6	MPa	ASTM D882
TD: Yield, 13 µm	24.1	MPa	ASTM D882
MD: Broken, 13 µm	55.2	MPa	ASTM D882
TD: Broken, 13 µm	53.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 13 µm	270	%	ASTM D882
TD: Broken, 13 µm	350	%	ASTM D882
Dart Drop Impact (13 µm)	150	g	ASTM D1709A, ISO 7765-1
Elmendorf Tear Strength			ASTM D1922
MD : 13 µm [2]	70	g	ASTM D1922
TD : 13 µm	150	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ASTM D1525, ISO 306
Peak Melting Temperature	132	°C	ASTM D3418, ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	216	°C	
NOTE			
1.	Univation Method		
2.	Method B		

Recommended distributors for this material

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