Eraclene® FA 506

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene FA 506 is a high density polyethylene resin (HDPE), hexene copolymer, with antioxidants, suitable for blown film extrusion.
Its broad molecular weight distribution and density successfully combine excellent performance at high extrusion rates with high film strength and sealability.
Main Application
Eraclene FA 506 can be processed either in blend and in coextrusion. It is possible to use it pure for high rigidity grocery sacks and shopping bags. Usage in blend and/or in coextrusion with LDPE and LLDPE is also recommended for high strength thermo-shrinkable film, as well as for hygienic packaging. The excellent balance between drawability and bubble stability makes Eraclene FA 506 the optimum choice for manufacturing of high quality thin film characterized by outstanding mechanical properties.

General Information	
Additive	Antioxidant
Features	Antioxidant Copolymer Food Contact Acceptable Good Heat Seal Hexene Comonomer High Density High Strength Med.-Wide Molecular Weight Distrib.
Uses	Bags Blending Film Packaging Shrink Wrap
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blown Film Coextrusion

Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	15	g/10 min	
190°C/5.0 kg	0.60	g/10 min	

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	

Film Thickness - Recommended / Available	10 to 50µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : 25 µm, Blown Film	400	MPa	
1% Secant, TD : 25 µm, Blown Film	500	MPa	
Tensile Stress			ISO 527-3
MD : Break, 25 µm, Blown Film	55.0	MPa	
TD : Break, 25 µm, Blown Film	50.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	550	%	
TD : Break, 25 µm, Blown Film	750	%	
Dart Drop Impact [1] (25 µm, Blown Film)	150	g	ISO 7765-1
Elmendorf Tear Strength [2]			ISO 6383-2
MD : 25.0 µm	25.0	kN/m	
TD : 25.0 µm	250.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	119	°C	ISO 306/A
Melting Temperature	129	°C	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 210	°C	
NOTE			
1.	F50		
2.	Blown Film		

Recommended distributors for this material

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