

Eraclene® FA 706

High Density Polyethylene

Versalis S.p.A.

Technical Data

Product Description

Eraclene® FA 706 is a high density polyethylene resin (HDPE), hexene copolymer, with antioxidants, suitable for blown film extrusion.

Films manufactured with Eraclene® FA 706 show good processability together with high temperature resistance and good tensile properties at low strain (Young modulus, yield strength).

Eraclene® FA 706 is especially recommended for the production of "paper-like" films having high stiffness together with high thermal resistance. Due to its excellent compromise between drawability and bubble stability, Eraclene® FA 706 is the ideal choice for manufacturing of high strength thin films (shopping bags, bags on the reel, lamination films).

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Europe	• North America	
Additive	• Antioxidant		
Features	• Antioxidant	• Good Drawdown	• High Heat Resistance
	• Copolymer	• Good Processability	• High Stiffness
	• Food Contact Acceptable	• Hexene Comonomer	• High Tensile Strength
Uses	• Bags	• Film	• Laminates
Agency Ratings	• EU Food Contact, Unspecified Rating		
Forms	• Pellets		
Processing Method	• Blown Film		

Physical	Nominal Value Unit	Test Method
Density	0.952 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/21.6 kg	8.0 g/10 min	
190°C/5.0 kg	0.30 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	760 MPa	
1% Secant, TD: 25 µm, Blown Film	830 MPa	
Tensile Stress		ISO 527-3
MD: Break, 25 µm, Blown Film	46.0 MPa	
TD: Break, 25 µm, Blown Film	48.0 MPa	
Tensile Elongation		ISO 527-3
MD: Break, 25 µm, Blown Film	500 %	
TD: Break, 25 µm, Blown Film	450 %	
Dart Drop Impact ³ (25 µm, Blown Film)	100 g	ISO 7765-1
Elmendorf Tear Strength ⁴		ISO 6383-2
MD: 25.0 µm	10.0 kN/m	
TD: 25.0 µm	25.0 kN/m	

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -60.0 °C	ASTM D746
Vicat Softening Temperature	127 °C	ISO 306/A
Melting Temperature	134 °C	Internal Method

Extrusion	Nominal Value Unit
Melt Temperature	190 to 210 °C