

Polimeri Europa Eraclene® FA 706 Hexene Copolymer High Density Polyethylene - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

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). Main Applications: 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). Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-FA-706-Hexene-Copolymer-High-Density-Polyethylene-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.952 g/cc	0.952 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.30 g/10 min	0.30 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	8.0 g/10 min	8.0 g/10 min	ISO 1133
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ISO 527-3
Film Elongation at Break, TD	450 %	450 %	ISO 527-3
Elmendorf Tear Strength, MD	1.019 g/micron	25.88 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.5475 g/micron	64.706 g/mil	ISO 6383-2
Dart Drop Test	100 g	0.221 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	46.0 MPa	6670 psi	ISO 527-3
Film Tensile Strength at Break, TD	48.0 MPa	6960 psi	ISO 527-3
1% Secant Modulus, MD	760 MPa	110000 psi	ISO 527-3
1% Secant Modulus, TD	830 MPa	120000 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	134 °C	273 °F	Internal method
Vicat Softening Point	127 °C @Load 1.00 kg	261 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746

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