

Polimeri Europa Eraclene® FA 506 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 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 Applications: Eraclene FA 506 can be processed either in blend or 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. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Eraclene-FA-506-Hexene-Copolymer-High-Density-Polyethylene-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.939 g/cc	0.939 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.60 g/10 min	0.60 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	15 g/10 min	15 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	550 %	550 %	ISO 527-3
Film Elongation at Break, TD	750 %	750 %	ISO 527-3
Elmendorf Tear Strength, MD	2.5475 g/micron	64.706 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	150 g	0.331 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ISO 527-3
Film Tensile Strength at Break, TD	50.0 MPa	7250 psi	ISO 527-3
1% Secant Modulus, MD	400 MPa	58000 psi	ISO 527-3
1% Secant Modulus, TD	500 MPa	72500 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	129 °C	264 °F	Internal method
Vicat Softening Point	119 °C @Load 1.00 kg	246 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746

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