

Eraclene® FC 82

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene FC 82 is a high density polyethylene resin (HDPE), 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.

Main Application

Films produced by Eraclene FC 82 are recommended for high strength grocery sacks, shopping bags, notion and millinery bags. The excellent balance between drawability and bubble stability makes Eraclene FC 82 perfect for manufacturing of high strength thin films (shopping bags, bags on the reel, lamination film).

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	High Density		
	High Strength		
	Med.-Wide Molecular Weight Distrib.		
Uses	Bags		
	Film		
	Laminates		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	23	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	650	MPa	
1% Secant, TD : 25 µm, Blown Film	800	MPa	
Tensile Stress			ISO 527-3
MD : Break, 25 µm, Blown Film	50.0	MPa	
TD : Break, 25 µm, Blown Film	45.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 25 µm, Blown Film	500	%	

TD : Break, 25 µm, Blown Film	650	%	
Dart Drop Impact ¹ (25 µm, Blown Film)	70	g	ISO 7765-1
Elmendorf Tear Strength ²			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	135	°C	Internal Method
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 210	°C	
NOTE			
1.	F50		
2.	Blown Film		

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