

Eraclene® FC 82

High Density Polyethylene

Versalis S.p.A.

Technical Data

Product Description

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.

Films produced by Eraclene® FC82 are recommended for high strength grocery sacks, shopping bags, notion and millinery bags. The excellent balance between drawability and bubble stability makes Eraclene® FC82 perfect 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 • Food Contact Acceptable	• Good Drawdown • High Strength	• Med.-Wide Molecular Weight Distrib.
Uses	• Bags	• Film	• Laminates
Agency Ratings	• EU Food Contact, Unspecified Rating		
Forms	• Pellets		
Processing Method	• Blown Film	• Film Extrusion	

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 ³ (25 µm, Blown Film)	70 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	135 °C	Internal Method

Extrusion	Nominal Value Unit
Melt Temperature	190 to 210 °C